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# **Refinement of Medicare's Home Health Prospective Payment System: Final Report**

Contract #500-00-0032, TO#10:  
Empirical Analysis of a New  
Payment System

## ***APPENDIX***

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# Refinement of Medicare’s Home Health Prospective Payment System: Final Report

## APPENDIX

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## Exhibit A.1 : Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File

### Exhibit A.1

#### Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:

#### Legs One and Two

		Leg One			Leg Two		
		N	Coeff	TStat	N	Coeff	TStat
Adjusted R Square		0.4718					
Mean Resource Use			392.48			904.52	
Intercept			170.24	68.79			
leg2	2nd All Ortho Leg-Related Disorders Dummy				94,789	343.98	29.39
leg3	3rd All Ortho Leg-Related Disorders Dummy						
leg4	4th All Ortho Leg-Related Disorders Dummy						
ther_01	1 Therapy Visit	21,931	-	NA	-		
ther_02	2 Therapy Visits	15,350	-	NA	-		
ther_03	3 Therapy Visits	15,894	-	NA	-		
ther_04	4 Therapy Visits	17,636	-	NA	-		
ther_05	5 Therapy Visits	23,344	-	NA	-		
ther_06	6 Therapy Visits	23,476	111.90	63.19	-		
ther_07	7 Therapy Visits	18,884	154.64	79.28	-		
ther_08	8 Therapy Visits	16,173	193.87	92.68	-		
ther_09	9 Therapy Visits	14,281	234.87	106.08	-		
ther_10	10 Therapy Visits	35,064	286.19	190.43	-		
ther_11	11 Therapy Visits	28,819	322.39	197.46	-		
ther_12	12 Therapy Visits	27,684	362.17	217.48	-		
ther_13	13 Therapy Visits	19,312	399.54	205.55	-		
ther_15	15 Therapy Visits	-			12,418	28.51	9.26
ther_16	16 Therapy Visits	-			11,312	66.34	21.00
ther_17	17 Therapy Visits	-			9,705	97.74	29.55
ther_18	18 Therapy Visits	-			7,718	136.21	38.32
ther_19	19 Therapy Visits	-			6,018	177.66	45.87
ther_20	20 Therapy Visits	-			5,138	386.37	152.29
ther_21	21 Therapy Visits	-			4,297	386.37	152.29
ther_22	22 Therapy Visits	-			3,780	386.37	152.29
ther_23	23 Therapy Visits	-			3,327	386.37	152.29
ther_24	24 Therapy Visits	-			2,776	386.37	152.29
ther_25	25 Therapy Visits	-			2,363	386.37	152.29
ther_26	26 Therapy Visits	-			1,998	386.37	152.29
ther_27	27 Therapy Visits	-			1,467	386.37	152.29

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

		Leg One			Leg Two			
		N	Coeff	TStat	N	Coeff	TStat	
ther_28	28 Therapy Visits	-			1,139	386.37	152.29	
ther_29	29 Therapy Visits	-			970	386.37	152.29	
ther_30	30 or More Therapy Visits	-			5,486	386.37	152.29	
ther_IP	IV Therapy or Parenteral Therapy	11,169	86.28	22.76	703	162.39	9.29	
ther_e	Enteral Therapy	6,714	37.48	9.31	1,519	117.87	13.39	
pain23	Pain	256,116	9.71	12.11	54,633	4.96	2.78	
vis_ge1	Vision	135,625	(6.71)	(3.10)	26,722	(3.33)	(0.52)	
i_vis_ge1_injmeduse_0	Vision	Injectable Drug Use Known to Be No	90,299	14.80	6.27	20,046	2.25	0.34
i_vis_ge1_injmeduse_1	Vision	Injectable Drug Use Known to Be Yes	20,982	16.41	5.41	4,266	3.26	0.41
ucontnew	Urinary Incontinence	138,926	0.34	0.27	32,314	0.31	0.10	
bcont2_5	Incontinence	45,582	9.70	6.52	10,590	20.75	6.96	
Ostomy12	Ostomy	9,000	46.65	12.06	1,145	92.51	10.11	
multpulc	Multiple Pressure Ulcers	2,113	58.50	5.81	263	79.88	2.60	
press12	Pressure Ulcer stage = 1 and/or 2	24,031	48.94	17.69	5,508	110.30	17.28	
press34	Pressure Ulcer stage = 3 and/or 4	7,782	172.76	33.82	1,139	288.10	22.83	
l_ucont_multpulc	Urinary Incontinence	Multiple Pressure Ulcers	802	(18.97)	(1.45)	90	5.38	0.15
l_ucont_press12	Urinary Incontinence	Pressure Ulcer stage = 1 and/or 2	10,644	(8.76)	(2.56)	2,472	(5.21)	(0.73)
l_ucont_press34	Urinary Incontinence	Pressure Ulcer stage = 3 and/or 4	2,987	(19.59)	(2.84)	442	(57.64)	(3.34)
stasis2	Stasis Ulcer healing status = 2	5,399	71.84	15.08	501	94.78	6.22	
stasis3	Stasis Ulcer healing status = 3	5,083	113.77	23.47	371	144.66	8.07	
surg2	Surgical Wound healing status = 2	78,382	9.55	7.91	12,201	27.42	9.70	
surg3	Surgical Wound healing status = 3	15,127	44.74	17.78	1,370	50.57	6.33	
dysp234	Dyspnea 2 to 4	204,631	13.55	10.39	37,288	20.65	6.45	
dress13	Dressing 1 to 3	324,165	11.51	6.83	79,530	31.76	6.31	
bth_ge2	Bathing >= 2	357,622	24.28	14.25	85,100	30.78	5.24	
toi_ge2	Toileting >= 2	59,404	14.98	5.71	19,203	27.87	5.31	
tfr_ge1	Transferring = 1	292,435	4.51	2.67	64,267	(0.16)	(0.03)	
tfr_ge2	Transferring >= 2	56,312	8.94	2.76	20,286	24.33	3.23	
loco_ge1	Locomotion = 1 or 2	375,613	13.22	6.16	79,668	29.31	2.69	
loco_ge3	Locomotion >= 3	41,758	27.71	7.50	13,229	53.92	4.36	
pMS_I	Primary MS	1,062	(3.77)	(0.12)	409	(47.59)	(0.26)	
sMS_I	Secondary MS	1,440	(2.79)	(0.09)	425	(57.13)	(0.31)	
i_bms_bdm	Primary or Secondary MS (Updated)	Diabetes (250.xx) and DM Manifestation Codes	250	(3.18)	(0.09)	64	(29.52)	(0.23)
i_bms_bdmi_0	Primary or Secondary MS (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	95	(9.24)	(0.21)	28	43.95	0.32
i_bms_bdmi_1	Primary or Secondary MS (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	106	(71.70)	(1.67)	32	45.25	0.33

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bms_dress13	Primary or Secondary MS (Updated)	Dressing 1 to 3	1,958	(8.72)	(0.50)	695	11.28	0.40
i_bms_bth_ge2	Primary or Secondary MS (Updated)	Bathing >= 2	2,071	30.38	1.66	743	75.08	2.33
i_bms_toi_ge2	Primary or Secondary MS (Updated)	Toileting >= 2	1,016	32.89	2.05	303	25.85	1.05
i_bms_tfr_ge1	Primary or Secondary MS (Updated)	Transferring = 1	1,095	(18.12)	(0.92)	409	(54.66)	(1.50)
i_bms_tfr_ge2	Primary or Secondary MS (Updated)	Transferring >= 2	1,133	(7.53)	(0.29)	360	(71.86)	(1.63)
i_bms_loco_ge1	Primary or Secondary MS (Updated)	Locomotion = 1 or 2	1,150	11.58	0.33	414	35.56	0.19
i_bms_loco_ge3	Primary or Secondary MS (Updated)	Locomotion >= 3	1,287	(2.47)	(0.07)	418	86.25	0.46
i_bms_new_blind	Primary or Secondary MS (Updated)	Vision >= 1	13	152.69	2.16	-	-	.
pBLOOD	Primary Blood Disorders		3,466	13.68	3.13	132	89.41	4.05
sBLOOD	Secondary Blood Disorders		18,414	16.85	8.80	2,829	42.03	8.63
new_ppsych1	Primary Psychiatric/Affective, Depressive, Other Psychoses		3,318	37.74	7.25	147	116.53	4.71
new_spsych1	Secondary Psychiatric/Affective, Depressive, Other Psychoses		17,557	26.22	6.14	2,772	53.87	3.52
i_bpsych1_dress13	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Dressing 1 to 3	12,950	5.72	1.25	2,369	2.30	0.16
i_bpsych1_bth_ge2	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Bathing >= 2	14,648	7.57	1.58	2,575	2.99	0.17
i_bpsych1_toi_ge2	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Toileting >= 2	2,122	(4.73)	(0.77)	544	(10.26)	(0.82)
i_bms_dress13	Primary or Secondary MS (Updated)	Dressing 1 to 3	1,958	(8.72)	(0.50)	695	11.28	0.40
i_bms_bth_ge2	Primary or Secondary MS (Updated)	Bathing >= 2	2,071	30.38	1.66	743	75.08	2.33
i_bms_toi_ge2	Primary or Secondary MS (Updated)	Toileting >= 2	1,016	32.89	2.05	303	25.85	1.05
i_bms_tfr_ge1	Primary or Secondary MS (Updated)	Transferring = 1	1,095	(18.12)	(0.92)	409	(54.66)	(1.50)
i_bms_tfr_ge2	Primary or Secondary MS (Updated)	Transferring >= 2	1,133	(7.53)	(0.29)	360	(71.86)	(1.63)
i_bms_loco_ge1	Primary or Secondary MS (Updated)	Locomotion = 1 or 2	1,150	11.58	0.33	414	35.56	0.19
i_bms_loco_ge3	Primary or Secondary MS (Updated)	Locomotion >= 3	1,287	(2.47)	(0.07)	418	86.25	0.46
i_bms_new_blind	Primary or Secondary MS (Updated)	Vision >= 1	13	152.69	2.16	-	-	.
pBLOOD	Primary Blood Disorders		3,466	13.68	3.13	132	89.41	4.05
sBLOOD	Secondary Blood Disorders		18,414	16.85	8.80	2,829	42.03	8.63
new_ppsych1	Primary Psychiatric/Affective, Depressive, Other Psychoses		3,318	37.74	7.25	147	116.53	4.71
new_spsych1	Secondary Psychiatric/Affective, Depressive, Other Psychoses		17,557	26.22	6.14	2,772	53.87	3.52
i_bpsych1_dress13	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Dressing 1 to 3	12,950	5.72	1.25	2,369	2.30	0.16

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bpsych1_bth_ge2	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Bathing >= 2	14,648	7.57	1.58	2,575	2.99	0.17
i_bpsych1_toi_ge2	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Toileting >= 2	2,122	(4.73)	(0.77)	544	(10.26)	(0.82)
i_bgi_dd_stroke_and_neuro2	Primary or Secondary GI and Abnormal Weight Loss	Stroke and Brain Hemorrhage or Peripheral Neurological Disorder	2,505	6.25	1.15	681	15.34	1.40
i_bgi_dd_ostomy12	Primary or Secondary GI and Abnormal Weight Loss	Ostomy	2,240	26.00	4.03	185	29.08	1.37
i_bgi_dd_ther_ip	Primary or Secondary GI and Abnormal Weight Loss	IV or Parenteral Therapy	1,339	9.53	1.25	68	(13.40)	(0.40)
i_bgi_dd_ther_e	Primary or Secondary GI and Abnormal Weight Loss	Enteral Therapy	942	(6.16)	(0.68)	117	(69.17)	(2.75)
pdysphagia	Primary Dysphagia		731	(25.72)	(2.45)	175	(13.49)	(0.66)
Sdysphagia	Secondary Dysphagia		4,297	3.61	0.57	2,218	51.30	4.86
i_bdsphagia_bortho1_dd2	Primary or Secondary Dysphagia	All Ortho Except Gait and Leg	243	3.93	0.23	113	36.92	1.48
i_bdsphagia_bleg_gait	Primary or Secondary Dysphagia	All Ortho Leg-Related or Gait Disorders	888	1.17	0.12	872	13.74	1.23
i_bdsphagia_btrauma_l2	Primary or Secondary Dysphagia	Other Trauma (Post-Operative Wounds)	86	(27.20)	(0.98)	25	63.93	1.23
i_bdsphagia_btrauma2	Primary or Secondary Dysphagia	Ulcer, Skin Disorders, Cellulitis	91	(11.37)	(0.42)	17	(41.86)	(0.67)
i_bdsphagia_bdm	Primary or Secondary Dysphagia	Diabetes (250.xx) and DM Manifestation Codes	701	(6.83)	(0.29)	327	(46.83)	(0.99)
i_bdsphagia_bdmi_0	Primary or Secondary Dysphagia	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	349	(11.63)	(0.44)	158	39.10	0.76
i_bdsphagia_bdmi_1	Primary or Secondary Dysphagia	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	231	5.95	0.21	141	89.20	1.72
i_bdsphagia_new_bneuro1	Primary or Secondary Dysphagia	Paralysis, Brain Other Than Hemorrhage or Other Neurological Updated	227	13.32	0.75	85	0.18	0.01
i_bdsph_stroke_and_neuro2	Primary or Secondary Dysphagia	Stroke and Brain Hemorrhage or Peripheral Neurological Disorder	1,499	0.88	0.11	1,270	(2.44)	(0.22)
i_bdsphagia_ostomy12	Primary or Secondary Dysphagia	Ostomy	59	(19.99)	(0.60)	35	(240.05)	(5.45)
i_bdsphagia_ther_ip	Primary or Secondary Dysphagia	IV or Parenteral Therapy	110	(39.16)	(1.59)	29	113.44	2.23
I_bdsphagia_ther_e	Primary Cancer	Enteral Therapy	1,842	21.25	2.50	566	28.25	1.87
Pcancer_l	Secondary Cancer		12,706	42.67	16.55	589	147.85	13.03
Scancer_l	Primary Cancer		20,080	22.14	9.28	2,253	66.48	8.09
i_bcancer_l_btrauma_l2	Primary or Secondary Cancer	Other Trauma (Post-Operative Wounds)	1,619	(7.86)	(1.15)	86	(10.91)	(0.38)
i_bcancer_l_btrauma2	Primary or Secondary Cancer	Ulcer, Skin Disorders, Cellulitis	719	(3.30)	(0.34)	39	(103.84)	(2.48)
i_bcancer_l_new_bpsych1	Primary or Secondary Cancer	Psychiatric Affective, Depressive, Other Psychoses	965	(10.26)	(1.21)	78	31.10	1.05
i_bcancer_l_new_bpsych2_dd2	Primary or Secondary Cancer	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	813	(1.12)	(0.12)	99	(81.62)	(3.10)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bcancer_l_bdm	Primary or Secondary Cancer	Diabetes (250.xx) and DM Manifestation Codes	5,581	(8.03)	(0.86)	471	(40.09)	(0.96)
i_bcancer_l_bdmi_0	Primary or Secondary Cancer	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	2,982	4.10	0.40	257	11.74	0.26
i_bcancer_l_bdmi_1	Primary or Secondary Cancer	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	1,816	(7.65)	(0.70)	177	14.13	0.31
i_bcancer_l_new_bneuro1	Primary or Secondary Cancer	Paralysis, Brain Other Than Hemorrhage or Other Neurological Updated	278	22.32	1.42	47	110.92	2.89
i_bcancer_l_stroke_and_neuro2	Primary or Secondary Cancer	Stroke and Brain Hemorrhage or Peripheral Neurological Disorder	1,458	5.16	0.74	361	(37.11)	(2.55)
i_bcancer_l_ostomy12	Primary or Secondary Cancer	Ostomy	2,344	(0.81)	(0.13)	137	(42.88)	(1.80)
i_bcancer_l_bortho1_dd2	Primary or Secondary Cancer	All Ortho Except Gait and Leg	2,050	16.83	2.85	293	20.10	1.27
i_bcancer_l_bleg_gait	Primary or Secondary Cancer	All Ortho Leg-Related or Gait Disorders	3,808	18.09	3.99	987	(0.20)	(0.02)
new_pneuro1	Primary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)		1,902	32.56	2.05	734	49.18	0.86
new_sneuro1	Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)		4,037	20.79	1.33	921	(14.24)	(0.25)
pp_neuro_dd	Primary Peripheral Neurological Disorders (Updated)		4,441	8.63	1.39	2,053	23.69	1.25
sp_neuro_dd	Secondary Peripheral Neurological Disorders (Updated)		13,936	(7.58)	(0.76)	4,323	(37.79)	(1.03)
i_new_bneuro1_bdm	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Diabetes (250.xx) and DM Manifestation Codes	903	24.39	1.27	211	(54.93)	(0.88)
i_new_bneuro1_bdmi_0	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	432	(32.49)	(1.44)	111	129.58	1.95
i_new_bneuro1_bdmi_1	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	297	(47.74)	(2.01)	82	28.10	0.42
i_new_bneuro1_btrauma_l2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Other Trauma (Post-Operative Wounds)	277	(27.40)	(1.72)	39	(84.05)	(1.98)
i_new_bneuro1_btrauma2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Ulcer, Skin Disorders, Cellulitis	281	(33.19)	(2.06)	18	69.49	1.14
i_new_bneuro1_stasis2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Stasis Ulcer healing status = 2	62	(31.69)	(0.97)	7	6.55	0.07

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_new_bneuro1_stasis3	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Stasis Ulcer healing status = 3	31	(116.70)	(2.54)	3	(151.56)	(1.01)
i_new_bneuro1_ucontnew	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Urinary Incontinence	1,521	(2.39)	(0.31)	488	(5.83)	(0.41)
i_new_bneuro1_ther_ip	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	IV or Parenteral Therapy	294	(27.01)	(1.74)	38	8.07	0.18
i_new_bneuro1_bheart_a	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Heart A	6	(107.74)	(1.03)	1	381.65	1.48
i_new_bneuro1_bheart_b	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Heart B	225	25.41	1.45	73	31.37	1.00
i_new_bneuro1_bheart_c	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Heart C	263	(4.59)	(0.28)	41	(50.96)	(1.25)
i_new_bneuro1_bhypertension_a	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Hypertension A	1,177	(18.63)	(2.18)	294	(25.66)	(1.52)
i_new_bneuro1_bhypertension_b	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Hypertension B	36	(50.52)	(1.18)	7	(29.97)	(0.30)
i_new_bneuro1_bhypertension_c	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Hypertension C	16	48.44	0.76	3	(667.89)	(4.16)
i_new_bneuro1_bortho1_dd2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	All Ortho Except Gait and Leg	663	7.50	0.70	221	30.24	1.61
i_new_bneuro1_bleg_gait	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	All Ortho Leg-Related or Gait Disorders	1,271	(18.50)	(2.13)	680	(14.75)	(1.08)
i_new_bneuro1_dress13	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Dressing 1 to 3	4,714	6.72	0.64	1,486	79.54	3.36



**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_new_bneuro1_bth_ge2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Bathing >= 2	5,046	17.85	1.56	1,551	1.76	0.06
i_new_bneuro1_toi_ge2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Toileting >= 2	2,237	13.00	1.16	590	88.52	4.58
i_new_bneuro1_tfr_ge1	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Transferring = 1	2,785	(9.09)	(0.82)	908	6.81	0.25
i_new_bneuro1_tfr_ge2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Transferring >= 2	2,165	(25.42)	(1.70)	630	(0.92)	(0.03)
i_new_bneuro1_loco_ge1	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Locomotion = 1 or 2	2,945	(4.29)	(0.25)	1,080	(26.57)	(0.45)
i_new_bneuro1_loco_ge3	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Locomotion >= 3	2,664	14.34	0.78	552	(25.19)	(0.41)
i_bp_neuro_dd_bdm	Primary or Secondary Peripheral Neurological Disorders (Updated)	Diabetes (250.xx) and DM Manifestation Codes	9,108	2.09	0.48	1,969	3.89	0.30
i_bp_neuro_dd_bdmi_0	Primary or Secondary Peripheral Neurological Disorders (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	3,937	(0.41)	(0.08)	983	(9.44)	(0.66)
i_bp_neuro_dd_bdmi_1	Primary or Secondary Peripheral Neurological Disorders (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	3,368	(2.69)	(0.53)	789	(20.54)	(1.42)
i_bp_neuro_dd_btrauma_l2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Other Trauma (Post-Operative Wounds)	1,172	(1.33)	(0.24)	169	6.92	0.46
i_bp_neuro_dd_btrauma2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Ulcer, Skin Disorders, Cellulitis	1,773	(4.86)	(1.01)	215	(23.46)	(1.71)
i_bp_neuro_dd_stasis2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Stasis Ulcer healing status = 2	385	6.19	0.64	49	25.56	0.92
i_bp_neuro_dd_stasis3	Primary or Secondary Peripheral Neurological Disorders (Updated)	Stasis Ulcer healing status = 3	314	22.26	2.09	30	3.30	0.09
i_bp_neuro_dd_ucontnew	Primary or Secondary Peripheral Neurological Disorders (Updated)	Urinary Incontinence	13,308	(1.99)	(0.89)	4,426	(0.62)	(0.16)
i_bp_neuro_dd_ther_ip	Primary or Secondary Peripheral Neurological Disorders (Updated)	IV or Parenteral Therapy	536	2.50	0.31	49	(53.99)	(1.96)
i_bp_neuro_dd_bheart_a	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Heart A	81	8.71	0.42	9	15.46	0.23

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bp_neuro_dd_bheart_b	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Heart B	2,339	(2.46)	(0.61)	522	(9.19)	(1.05)
i_bp_neuro_dd_bheart_c	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Heart C	3,149	1.86	0.53	663	3.35	0.43
i_bp_neuro_dd_bhypertension_a	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Hypertension A	8,723	(0.25)	(0.11)	2,115	6.20	1.30
i_bp_neuro_dd_bhypertension_b	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Hypertension B	577	(4.53)	(0.57)	101	12.33	0.64
i_bp_neuro_dd_bhypertension_c	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Hypertension C	120	11.85	0.69	20	(18.08)	(0.43)
i_bp_neuro_dd_bortho1_dd2	Primary or Secondary Peripheral Neurological Disorders (Updated)	All Ortho Except Gait and Leg	4,640	5.43	1.80	1,610	2.78	0.53
i_bp_neuro_dd_bleg_gait	Primary or Secondary Peripheral Neurological Disorders (Updated)	All Ortho Leg-Related or Gait Disorders	10,815	(1.90)	(0.80)	5,973	(5.85)	(1.47)
i_bp_neuro_dd_dress13	Primary or Secondary Peripheral Neurological Disorders (Updated)	Dressing 1 to 3	24,992	0.47	0.15	9,218	10.25	1.61
i_bp_neuro_dd_bth_ge2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Bathing >= 2	26,670	5.57	1.65	9,673	21.28	2.86
i_bp_neuro_dd_toi_ge2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Toileting >= 2	6,501	0.41	0.11	2,397	4.67	0.80
i_bp_neuro_dd_tfr_ge1	Primary or Secondary Peripheral Neurological Disorders (Updated)	Transferring = 1	20,130	0.81	0.24	6,958	7.02	0.95
i_bp_neuro_dd_tfr_ge2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Transferring >= 2	6,983	3.28	0.65	2,844	1.23	0.14
i_bp_neuro_dd_loco_ge1	Primary or Secondary Peripheral Neurological Disorders (Updated)	Locomotion = 1 or 2	25,362	2.11	0.39	8,781	1.79	0.10
i_bp_neuro_dd_loco_ge3	Primary or Secondary Peripheral Neurological Disorders (Updated)	Locomotion >= 3	5,309	(4.79)	(0.73)	1,797	(7.34)	(0.37)
Pstroke_dd2	Primary Stroke and Brain Hemorrhage		13,208	21.73	3.29	7,911	67.86	3.71
Sstroke_dd2	Secondary Stroke and Brain Hemorrhage		18,410	18.94	2.83	6,618	7.97	0.43
i_bstroke_dd2_bdm	Primary or Secondary Stroke and Brain Hemorrhage	Diabetes (250.xx) and DM Manifestation Codes	7,899	(1.77)	(0.25)	3,022	49.75	2.81
i_bstroke_dd2_bdmi_0	Primary or Secondary Stroke and Brain Hemorrhage	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	3,895	(1.41)	(0.18)	1,589	(56.81)	(3.00)
i_bstroke_dd2_bdmi_1	Primary or Secondary Stroke and Brain Hemorrhage	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	2,512	0.82	0.10	1,147	(44.04)	(2.27)
i_bstroke_dd2_btrauma_l2	Primary or Secondary Stroke and Brain Hemorrhage	Other Trauma (Post-Operative Wounds)	602	(15.62)	(1.47)	155	(56.41)	(2.57)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bstroke_dd2_btrauma2	Primary or Secondary Stroke and Brain Hemorrhage	Ulcer, Skin Disorders, Cellulitis	786	3.50	0.36	155	(39.40)	(1.77)
i_bstroke_dd2_stasis2	Primary or Secondary Stroke and Brain Hemorrhage	Stasis Ulcer healing status = 2	199	(19.91)	(1.07)	38	103.92	2.34
i_bstroke_dd2_stasis3	Primary or Secondary Stroke and Brain Hemorrhage	Stasis Ulcer healing status = 3	147	(28.76)	(1.33)	17	(171.10)	(2.69)
i_bstroke_dd2_ucontnew	Primary or Secondary Stroke and Brain Hemorrhage	Urinary Incontinence	12,406	1.21	0.37	5,716	0.51	0.10
i_bstroke_dd2_ther_ip	Primary or Secondary Stroke and Brain Hemorrhage	IV or Parenteral Therapy	237	22.34	1.33	47	(137.96)	(3.39)
i_bstroke_dd2_bheart_a	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Heart A	98	10.42	0.39	15	(205.79)	(2.78)
i_bstroke_dd2_bheart_b	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Heart B	2,959	(7.63)	(1.48)	899	(13.37)	(1.37)
i_bstroke_dd2_bheart_c	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Heart C	2,885	4.70	0.91	781	(20.16)	(2.01)
i_bstroke_dd2_bhypertension_a	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Hypertension A	12,614	9.21	2.93	4,528	(20.04)	(3.79)
i_bstroke_dd2_bhypertension_b	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Hypertension B	659	(7.45)	(0.69)	176	(49.60)	(2.15)
i_bstroke_dd2_bhypertension_c	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Hypertension C	135	(5.75)	(0.25)	34	(7.47)	(0.15)
i_bstroke_dd2_bortho1_dd2	Primary or Secondary Stroke and Brain Hemorrhage	All Ortho Except Gait and Leg	2,922	15.19	2.96	1,071	2.48	0.29
i_bstroke_dd2_bleg_gait	Primary or Secondary Stroke and Brain Hemorrhage	All Ortho Leg-Related or Gait Disorders	9,523	(9.75)	(2.84)	6,532	(13.75)	(2.75)
i_bstroke_dd2_dress13	Primary or Secondary Stroke and Brain Hemorrhage	Dressing 1 to 3	24,018	10.56	2.43	12,756	30.12	3.66
i_bstroke_dd2_bth_ge2	Primary or Secondary Stroke and Brain Hemorrhage	Bathing >= 2	26,165	(6.30)	(1.33)	13,403	2.16	0.22
i_bstroke_dd2_toi_ge2	Primary or Secondary Stroke and Brain Hemorrhage	Toileting >= 2	7,450	11.57	2.17	4,139	0.87	0.12
i_bstroke_dd2_tfr_ge1	Primary or Secondary Stroke and Brain Hemorrhage	Transferring = 1	18,213	1.14	0.24	8,521	(0.19)	(0.02)
i_bstroke_dd2_tfr_ge2	Primary or Secondary Stroke and Brain Hemorrhage	Transferring >= 2	7,744	1.34	0.18	4,727	21.46	1.85
i_bstroke_dd2_loco_ge1	Primary or Secondary Stroke and Brain Hemorrhage	Locomotion = 1 or 2	23,680	(26.52)	(3.72)	11,044	(16.13)	(0.84)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bstroke_dd2_loco_ge3	Primary or Secondary Stroke and Brain Hemorrhage	Locomotion >= 3	6,031	(20.19)	(2.22)	3,224	19.69	0.95
pheart_a	Primary Heart A		550	7.84	0.43	24	(228.62)	(1.13)
sheart_a	Secondary Heart A		1,290	8.51	0.49	115	(211.54)	(1.08)
i_bheart_a_bortho1_dd2	Primary or Secondary Heart A	All Ortho Except Gait and Leg	162	37.24	1.76	15	(108.97)	(1.50)
i_bheart_a_bleg_gait	Primary or Secondary Heart A	All Ortho Leg-Related or Gait Disorders	209	30.50	1.61	43	(76.42)	(1.51)
i_bheart_a_bpsych1	Primary or Secondary Heart A	Psychiatric Affective, Depressive, Other Psychoses	49	4.62	0.13	3	(186.37)	(1.20)
i_bheart_a_bpsych2_dd2	Primary or Secondary Heart A	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	67	(38.60)	(1.21)	5	(3.05)	(0.02)
i_bheart_a_btrauma_l2	Primary or Secondary Heart A	Other Trauma (Post-Operative Wounds)	45	6.23	0.16	3	15.85	0.08
i_bheart_a_btrauma2	Primary or Secondary Heart A	Ulcer, Skin Disorders, Cellulitis	39	(62.42)	(1.40)	1	(369.45)	(1.34)
i_bheart_a_bdm	Primary or Secondary Heart A	Diabetes (250.xx) and DM Manifestation Codes	513	(18.97)	(0.60)	29	(425.69)	(2.74)
i_bheart_a_bdmi_0	Primary or Secondary Heart A	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	270	2.30	0.07	14	486.89	2.93
i_bheart_a_bdmi_1	Primary or Secondary Heart A	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	180	23.97	0.67	12	486.59	2.84
i_bheart_a_stasis2	Primary or Secondary Heart A	Stasis Ulcer healing status = 2	11	0.01	-	1	64.15	0.17
i_bheart_a_stasis3	Primary or Secondary Heart A	Stasis Ulcer healing status = 3	8	228.06	2.38	2	(334.44)	(1.80)
i_bheart_a_ther_ip	Primary or Secondary Heart A	IV or Parenteral Therapy	10	(42.56)	(0.52)	-	-	.
i_bheart_a_dress13	Primary or Secondary Heart A	Dressing 1 to 3	1,185	14.87	0.98	106	99.51	1.61
i_bheart_a_bth_ge2	Primary or Secondary Heart A	Bathing >= 2	1,259	10.85	0.71	119	96.27	1.28
i_bheart_a_toi_ge2	Primary or Secondary Heart A	Toileting >= 2	117	57.47	1.88	20	161.52	1.84
i_bheart_a_tfr_ge1	Primary or Secondary Heart A	Transferring = 1	1,095	6.26	0.40	97	(29.30)	(0.44)
i_bheart_a_tfr_ge2	Primary or Secondary Heart A	Transferring >= 2	95	(77.47)	(2.13)	17	(212.95)	(1.80)
i_bheart_a_loco_ge1	Primary or Secondary Heart A	Locomotion = 1 or 2	1,454	(3.00)	(0.16)	125	268.12	1.40
i_bheart_a_loco_ge3	Primary or Secondary Heart A	Locomotion >= 3	66	(38.19)	(0.90)	12	129.25	0.58
i_bheart_a_dysp234	Primary or Secondary Heart A	Dyspnea	1,026	(21.28)	(1.70)	79	(45.97)	(0.86)
pheart_b	Primary Heart B		9,773	0.21	0.05	629	82.43	3.11
sheart_b	Secondary Heart B		41,032	(4.52)	(1.15)	5,483	12.62	0.50
i_bheart_b_bortho1_dd2	Primary or Secondary Heart B	All Ortho Except Gait and Leg	5,135	8.43	2.13	746	0.49	0.05
i_bheart_b_bleg_gait	Primary or Secondary Heart B	All Ortho Leg-Related or Gait Disorders	7,642	22.42	6.62	2,356	7.13	1.00
i_bheart_b_bpsych1	Primary or Secondary Heart B	Psychiatric Affective, Depressive, Other Psychoses	1,751	3.33	0.51	185	(14.82)	(0.76)
i_bheart_b_bpsych2_dd2	Primary or Secondary Heart B	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	2,539	11.51	2.11	298	42.67	2.73
i_bheart_b_btrauma_l2	Primary or Secondary Heart B	Other Trauma (Post-Operative Wounds)	1,789	(6.77)	(1.05)	130	37.14	1.56

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bheart_b_btrauma2	Primary or Secondary Heart B	Ulcer, Skin Disorders, Cellulitis	1,746	(2.68)	(0.39)	128	43.42	1.76
i_bheart_b_bdm	Primary or Secondary Heart B	Diabetes (250.xx) and DM Manifestation Codes	16,416	(6.65)	(1.17)	1,769	(61.58)	(2.66)
i_bheart_b_bdmi_0	Primary or Secondary Heart B	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	8,323	(1.54)	(0.25)	900	49.52	2.02
i_bheart_b_bdmi_1	Primary or Secondary Heart B	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	5,820	0.82	0.13	735	44.36	1.79
i_bheart_b_stasis2	Primary or Secondary Heart B	Stasis Ulcer healing status = 2	359	30.05	2.11	35	11.74	0.25
i_bheart_b_stasis3	Primary or Secondary Heart B	Stasis Ulcer healing status = 3	367	(16.74)	(1.18)	28	(117.86)	(2.28)
i_bheart_b_ther_ip	Primary or Secondary Heart B	IV or Parenteral Therapy	620	1.48	0.14	30	67.94	1.40
i_bheart_b_dress13	Primary or Secondary Heart B	Dressing 1 to 3	34,338	1.05	0.33	5,131	9.31	0.88
i_bheart_b_bth_ge2	Primary or Secondary Heart B	Bathing >= 2	37,193	2.74	0.84	5,527	19.52	1.52
i_bheart_b_toi_ge2	Primary or Secondary Heart B	Toileting >= 2	4,095	1.62	0.29	1,076	(4.35)	(0.39)
i_bheart_b_tfr_ge1	Primary or Secondary Heart B	Transferring = 1	30,893	10.30	3.15	4,318	(25.18)	(2.12)
i_bheart_b_tfr_ge2	Primary or Secondary Heart B	Transferring >= 2	3,889	25.53	3.79	1,089	(61.19)	(3.72)
i_bheart_b_loco_ge1	Primary or Secondary Heart B	Locomotion = 1 or 2	40,545	10.47	2.55	5,342	28.10	1.10
i_bheart_b_loco_ge3	Primary or Secondary Heart B	Locomotion >= 3	2,484	(0.29)	(0.04)	642	47.26	1.63
i_bheart_b_dysp234	Primary or Secondary Heart B	Dyspnea	26,817	(3.05)	(1.20)	3,099	(3.33)	(0.48)
pheart_c	Primary Heart C		23,293	26.04	6.56	1,878	122.66	5.24
sheart_c	Secondary Heart C		43,132	16.51	4.20	7,168	52.50	2.27
i_bheart_c_bortho1_dd2	Primary or Secondary Heart C	All Ortho Except Gait and Leg	6,091	3.45	0.94	1,021	1.54	0.17
i_bheart_c_bleg_gait	Primary or Secondary Heart C	All Ortho Leg-Related or Gait Disorders	10,117	13.13	4.38	3,332	(6.70)	(1.10)
i_bheart_c_bpsych1	Primary or Secondary Heart C	Psychiatric Affective, Depressive, Other Psychoses	1,972	(8.80)	(1.44)	203	(47.90)	(2.55)
i_bheart_c_bpsych2_dd2	Primary or Secondary Heart C	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	3,277	(13.08)	(2.69)	382	(40.74)	(2.94)
i_bheart_c_btrauma_l2	Primary or Secondary Heart C	Other Trauma (Post-Operative Wounds)	1,725	(10.17)	(1.56)	156	(38.36)	(1.77)
i_bheart_c_btrauma2	Primary or Secondary Heart C	Ulcer, Skin Disorders, Cellulitis	3,178	(10.14)	(1.90)	239	(16.83)	(0.90)
i_bheart_c_bdm	Primary or Secondary Heart C	Diabetes (250.xx) and DM Manifestation Codes	21,460	(15.49)	(3.31)	2,710	29.32	1.64
i_bheart_c_bdmi_0	Primary or Secondary Heart C	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	9,338	11.02	2.06	1,309	(33.09)	(1.72)
i_bheart_c_bdmi_1	Primary or Secondary Heart C	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	8,195	2.56	0.47	1,151	(60.38)	(3.11)
i_bheart_c_stasis2	Primary or Secondary Heart C	Stasis Ulcer healing status = 2	1,000	(2.43)	(0.26)	98	(20.27)	(0.68)
i_bheart_c_stasis3	Primary or Secondary Heart C	Stasis Ulcer healing status = 3	800	(19.85)	(1.96)	62	0.78	0.02
i_bheart_c_ther_ip	Primary or Secondary Heart C	IV or Parenteral Therapy	781	1.66	0.17	56	30.01	0.82
i_bheart_c_dress13	Primary or Secondary Heart C	Dressing 1 to 3	45,268	2.76	0.96	7,638	(14.36)	(1.58)
i_bheart_c_bth_ge2	Primary or Secondary Heart C	Bathing >= 2	50,560	7.48	2.47	8,201	11.89	1.08

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bheart_c_toi_ge2	Primary or Secondary Heart C	Toileting >= 2	7,684	(1.04)	(0.24)	1,916	(1.23)	(0.14)
i_bheart_c_tfr_ge1	Primary or Secondary Heart C	Transferring = 1	42,404	(2.71)	(0.90)	6,260	8.65	0.83
i_bheart_c_tfr_ge2	Primary or Secondary Heart C	Transferring >= 2	7,025	4.44	0.80	1,864	0.07	-
i_bheart_c_loco_ge1	Primary or Secondary Heart C	Locomotion = 1 or 2	54,982	5.50	1.32	7,766	1.63	0.07
i_bheart_c_loco_ge3	Primary or Secondary Heart C	Locomotion >= 3	4,796	(9.81)	(1.47)	1,126	(4.62)	(0.18)
i_bheart_c_dysp234	Primary or Secondary Heart C	Dyspnea	42,776	(0.72)	(0.31)	5,799	(3.24)	(0.53)
phypertension_a	Primary Hypertension A		15,163	29.47	8.99	716	202.08	12.10
shypertension_a	Secondary Hypertension A		133,036	14.06	5.18	22,083	112.78	7.95
i_bhypertension_a_bortho1_dd2	Primary or Secondary Hypertension A	All Ortho Except Gait and Leg	24,550	11.94	5.23	4,461	8.43	1.66
i_bhypertension_a_bleg_gait	Primary or Secondary Hypertension A	All Ortho Leg-Related or Gait Disorders	32,168	13.05	6.60	10,862	11.13	2.78
i_bhypertension_a_bpsych1	Primary or Secondary Hypertension A	Psychiatric Affective, Depressive, Other Psychoses	8,258	(8.43)	(2.25)	1,021	(2.55)	(0.25)
i_bhypertension_a_bpsych2_dd2	Primary or Secondary Hypertension A	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	11,373	1.35	0.43	1,470	11.82	1.46
i_bhypertension_a_btrauma_l2	Primary or Secondary Hypertension A	Other Trauma (Post-Operative Wounds)	5,611	(12.27)	(3.02)	400	(50.55)	(3.49)
i_bhypertension_a_btrauma2	Primary or Secondary Hypertension A	Ulcer, Skin Disorders, Cellulitis	6,669	(5.78)	(1.45)	392	(70.13)	(4.64)
i_bhypertension_a_bdm	Primary or Secondary Hypertension A	Diabetes (250.xx) and DM Manifestation Codes	48,176	(14.90)	(3.92)	6,199	(12.15)	(0.87)
i_bhypertension_a_bdmi_0	Primary or Secondary Hypertension A	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	24,409	0.80	0.19	3,555	(28.39)	(1.92)
i_bhypertension_a_bdmi_1	Primary or Secondary Hypertension A	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	14,991	2.40	0.54	2,132	(18.55)	(1.22)
i_bhypertension_a_stasis2	Primary or Secondary Hypertension A	Stasis Ulcer healing status = 2	1,455	(7.29)	(0.91)	110	9.65	0.34
i_bhypertension_a_stasis3	Primary or Secondary Hypertension A	Stasis Ulcer healing status = 3	1,387	(3.01)	(0.36)	88	(9.15)	(0.29)
i_bhypertension_a_ther_ip	Primary or Secondary Hypertension A	IV or Parenteral Therapy	2,106	(32.87)	(5.20)	96	19.40	0.67
i_bhypertension_a_dress13	Primary or Secondary Hypertension A	Dressing 1 to 3	99,499	7.34	3.42	19,056	12.73	2.10
i_bhypertension_a_bth_ge2	Primary or Secondary Hypertension A	Bathing >= 2	107,843	5.37	2.41	20,266	(11.73)	(1.66)
i_bhypertension_a_toi_ge2	Primary or Secondary Hypertension A	Toileting >= 2	16,410	(2.32)	(0.69)	4,558	(18.31)	(2.90)
i_bhypertension_a_tfr_ge1	Primary or Secondary Hypertension A	Transferring = 1	93,218	5.07	2.20	15,620	5.95	0.85
i_bhypertension_a_tfr_ge2	Primary or Secondary Hypertension A	Transferring >= 2	14,773	3.89	0.91	4,697	18.43	1.96
i_bhypertension_a_loco_ge1	Primary or Secondary Hypertension A	Locomotion = 1 or 2	119,352	0.50	0.17	19,276	(50.16)	(3.47)
i_bhypertension_a_loco_ge3	Primary or Secondary Hypertension A	Locomotion >= 3	10,368	(0.70)	(0.14)	3,020	(42.44)	(2.64)
i_bhypertension_a_dysp234	Primary or Secondary Hypertension A	Dyspnea	70,015	(12.27)	(7.14)	9,714	(23.67)	(5.79)
phypertension_b	Primary Hypertension B		1,670	25.21	2.06	70	104.96	1.38
shypertension_b	Secondary Hypertension B		6,484	26.20	2.33	853	(13.87)	(0.20)
i_bhypertension_b_bortho1_dd2	Primary or Secondary Hypertension B	All Ortho Except Gait and Leg	1,785	16.08	2.26	204	(47.21)	(2.22)
i_bhypertension_b_bleg_gait	Primary or Secondary Hypertension B	All Ortho Leg-Related or Gait Disorders	1,656	20.57	2.79	414	46.28	2.57

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bhypertension_b_bpsych1	Primary or Secondary Hypertension B	Psychiatric Affective, Depressive, Other Psychoses	332	(23.32)	(1.62)	33	(116.28)	(2.54)
i_bhypertension_b_bpsych2_dd2	Primary or Secondary Hypertension B	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	583	(19.94)	(1.78)	53	35.68	0.97
i_bhypertension_b_btrauma_l2	Primary or Secondary Hypertension B	Other Trauma (Post-Operative Wounds)	251	2.48	0.15	19	65.79	1.07
i_bhypertension_b_btrauma2	Primary or Secondary Hypertension B	Ulcer, Skin Disorders, Cellulitis	370	(8.76)	(0.58)	27	(119.12)	(2.24)
i_bhypertension_b_bdm	Primary or Secondary Hypertension B	Diabetes (250.xx) and DM Manifestation Codes	3,149	(27.71)	(3.02)	317	(101.97)	(2.59)
i_bhypertension_b_bdmi_0	Primary or Secondary Hypertension B	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	1,347	18.18	1.66	141	21.83	0.50
i_bhypertension_b_bdmi_1	Primary or Secondary Hypertension B	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	994	9.39	0.81	130	55.62	1.27
i_bhypertension_b_stasis2	Primary or Secondary Hypertension B	Stasis Ulcer healing status = 2	85	(73.67)	(2.56)	6	4.93	0.04
i_bhypertension_b_stasis3	Primary or Secondary Hypertension B	Stasis Ulcer healing status = 3	91	(92.24)	(3.18)	7	32.01	0.32
i_bhypertension_b_ther_ip	Primary or Secondary Hypertension B	IV or Parenteral Therapy	118	(28.78)	(1.20)	2	(45.04)	(0.24)
i_bhypertension_b_dress13	Primary or Secondary Hypertension B	Dressing 1 to 3	6,249	6.27	0.74	800	(23.22)	(0.80)
i_bhypertension_b_bth_ge2	Primary or Secondary Hypertension B	Bathing >= 2	6,270	11.34	1.36	835	16.60	0.50
i_bhypertension_b_toi_ge2	Primary or Secondary Hypertension B	Toileting >= 2	1,302	(8.74)	(0.85)	220	2.09	0.08
i_bhypertension_b_tfr_ge1	Primary or Secondary Hypertension B	Transferring = 1	5,372	(8.48)	(0.94)	624	13.71	0.43
i_bhypertension_b_tfr_ge2	Primary or Secondary Hypertension B	Transferring >= 2	1,206	(27.29)	(1.95)	215	(2.71)	(0.07)
i_bhypertension_b_loco_ge1	Primary or Secondary Hypertension B	Locomotion = 1 or 2	6,876	8.67	0.69	787	42.35	0.62
i_bhypertension_b_loco_ge3	Primary or Secondary Hypertension B	Locomotion >= 3	624	(1.58)	(0.09)	120	83.31	1.11
i_bhypertension_b_dysp234	Primary or Secondary Hypertension B	Dyspnea	5,566	(0.07)	(0.01)	591	21.58	1.18
phypertension_c	Primary Hypertension C		343	60.07	2.90	23	356.47	2.30
shypertension_c	Secondary Hypertension C		1,814	46.88	2.59	244	133.68	0.92
i_bhypertension_c_bortho1_dd2	Primary or Secondary Hypertension C	All Ortho Except Gait and Leg	228	(23.77)	(1.31)	30	27.42	0.52
i_bhypertension_c_bleg_gait	Primary or Secondary Hypertension C	All Ortho Leg-Related or Gait Disorders	292	13.86	0.85	84	86.16	2.48
i_bhypertension_c_bpsych1	Primary or Secondary Hypertension C	Psychiatric Affective, Depressive, Other Psychoses	49	(38.74)	(1.05)	3	(49.09)	(0.31)
i_bhypertension_c_bpsych2_dd2	Primary or Secondary Hypertension C	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	70	(50.76)	(1.62)	9	256.04	2.92
i_bhypertension_c_btrauma_l2	Primary or Secondary Hypertension C	Other Trauma (Post-Operative Wounds)	101	(40.67)	(1.55)	4	72.41	0.54
i_bhypertension_c_btrauma2	Primary or Secondary Hypertension C	Ulcer, Skin Disorders, Cellulitis	142	17.92	0.74	9	(120.57)	(1.35)
i_bhypertension_c_bdm	Primary or Secondary Hypertension C	Diabetes (250.xx) and DM Manifestation Codes	1,043	(10.64)	(0.58)	126	(119.14)	(2.32)
i_bhypertension_c_bdmi_0	Primary or Secondary Hypertension C	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	385	(4.73)	(0.22)	38	53.71	0.81
i_bhypertension_c_bdmi_1	Primary or Secondary Hypertension C	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	460	(3.18)	(0.16)	64	44.77	0.75

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bhypertension_c_stasis2	Primary or Secondary Hypertension C	Stasis Ulcer healing status = 2	28	(55.04)	(1.11)	3	45.86	0.30
i_bhypertension_c_stasis3	Primary or Secondary Hypertension C	Stasis Ulcer healing status = 3	31	(109.21)	(2.26)	-	-	.
i_bhypertension_c_ther_ip	Primary or Secondary Hypertension C	IV or Parenteral Therapy	49	(73.07)	(1.97)	2	(351.60)	(1.85)
i_bhypertension_c_dress13	Primary or Secondary Hypertension C	Dressing 1 to 3	1,498	21.30	1.37	238	160.77	2.62
i_bhypertension_c_bth_ge2	Primary or Secondary Hypertension C	Bathing >= 2	1,610	(5.39)	(0.34)	236	(192.35)	(3.20)
i_bhypertension_c_toi_ge2	Primary or Secondary Hypertension C	Toileting >= 2	331	(32.57)	(1.75)	80	(45.77)	(1.01)
i_bhypertension_c_tfr_ge1	Primary or Secondary Hypertension C	Transferring = 1	1,328	10.51	0.64	174	125.78	1.94
i_bhypertension_c_tfr_ge2	Primary or Secondary Hypertension C	Transferring >= 2	267	59.41	2.21	70	110.71	1.34
i_bhypertension_c_loco_ge1	Primary or Secondary Hypertension C	Locomotion = 1 or 2	1,713	(10.44)	(0.50)	211	(204.83)	(1.42)
i_bhypertension_c_loco_ge3	Primary or Secondary Hypertension C	Locomotion >= 3	185	(74.12)	(2.29)	52	(181.88)	(1.19)
i_bhypertension_c_dysp234	Primary or Secondary Hypertension C	Dyspnea	1,146	(33.84)	(2.94)	135	32.78	1.00
i_bhyper_a_heart_a_or_b	Primary or Secondary Hypertension A	Primary or Secondary Heart A or B	22,519	(6.89)	(2.82)	2,327	(16.49)	(2.34)
i_bhyper_b_heart_c	Primary or Secondary Hypertension B	Primary Heart C	1,833	(19.42)	(2.78)	172	(9.40)	(0.42)
injmeduse_0	Injectable Drug Use Known to Be No		341,424	19.74	12.22	73,923	31.07	7.60
injmeduse_1	Injectable Drug Use Known to Be Yes		69,963	24.35	11.26	13,620	39.90	7.75
pdm_all	Primary Diabetes (250.xx) and DM Manifestation Codes		35,933	42.14	9.17	2,874	143.77	7.18
sdm_all	Secondary Diabetes (250.xx) and DM Manifestation Codes		82,448	33.73	7.68	15,350	28.35	1.87
i_bdm_btrauma_l2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Other Trauma (Post-Operative Wounds)	6,130	(21.85)	(2.65)	505	(122.19)	(3.36)
i_bdm_btrauma2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Ulcer, Skin Disorders, Cellulitis	12,127	(0.69)	(0.12)	851	58.87	2.01
l_bdm_multpulc	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Multiple Pressure Ulcers	692	(24.00)	(1.19)	87	(107.55)	(1.34)
l_bdm_press12	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Pressure Ulcers 1or 2	6,654	(17.50)	(2.34)	1,392	(82.64)	(3.40)
l_bdm_press34	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Pressure Ulcers 3 or 4	2,693	(73.55)	(6.70)	356	(40.18)	(1.08)
l_bdm_surg2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Surgical Wound healing status = 2	15,752	9.26	1.21	2,035	167.90	5.33
l_bdm_surg3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Surgical Wound healing status = 3	4,363	26.25	2.14	341	113.91	1.72
i_bdm_bpsych1	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Psychiatric Affective, Depressive, Other Psychoses	4,822	3.91	0.47	506	(108.41)	(3.26)
i_bdm_bpsych2_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	5,856	(3.46)	(0.44)	743	80.65	2.56



**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bdm_new_bpulm	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Pulmonary	12,685	(13.97)	(2.29)	1,394	(16.82)	(0.72)
i_bdm_ther_ip	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	IV or Parenteral Therapy	2,763	(19.36)	(1.28)	151	(114.52)	(1.91)
i_bdm_bortho1_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	All Ortho Except Gait and Leg	13,999	(7.96)	(1.59)	2,652	(25.97)	(1.50)
i_bdm_bleg_gait	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	All Ortho Leg-Related or Gait Disorders	22,582	8.07	1.50	8,070	9.81	0.74
i_bdm_loco_ge3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Locomotion >= 3	11,830	(0.83)	(0.14)	3,034	45.39	2.59
i_bdm_new_blind	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Primary or Secondary Blindness or Low Vision	1,156	9.97	0.68	107	(100.66)	(1.34)
pdmi_0_all	Primary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No		13,918	15.32	2.86	1,221	(3.53)	(0.16)
sdmi_0_all	Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No		42,526	0.59	0.12	8,301	30.35	1.86
i_bdmi_0_btrauma_l2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Other Trauma (Post-Operative Wounds)	2,706	17.40	1.83	228	93.34	2.35
i_bdmi_0_btrauma2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Ulcer, Skin Disorders, Cellulitis	4,686	(5.63)	(0.84)	383	(90.67)	(2.88)
l_bdmi_0_multpulc	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Multiple Pressure Ulcers	232	29.75	1.12	32	184.02	1.99
l_bdmi_0_press12	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Pressure Ulcers 1 or 2	2,863	11.99	1.37	651	78.14	2.99
l_bdmi_0_press34	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Pressure Ulcers 3 or 4	851	51.08	3.60	131	(30.17)	(0.69)
l_bdmi_0_surg2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Surgical Wound healing status = 2	8,589	(16.12)	(1.98)	1,123	(190.32)	(5.87)
l_bdmi_0_surg3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Surgical Wound healing status = 3	2,036	(25.57)	(1.92)	154	(127.04)	(1.84)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bdmi_0_bpsych1	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Psychiatric Affective, Depressive, Other Psychoses	2,307	(2.40)	(0.25)	287	58.64	1.62
i_bdmi_0_bpsych2_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	3,189	11.19	1.25	455	(90.63)	(2.71)
i_bdmi_0_new_bpulm	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Pulmonary	6,102	2.69	0.39	712	(15.12)	(0.60)
i_bdmi_0_ther_ip	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	IV or Parenteral Therapy	1,092	19.79	1.18	60	1.46	0.02
i_bdmi_0_bortho1_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	All Ortho Except Gait and Leg	6,893	4.89	0.84	1,464	31.72	1.70
i_bdmi_0_bleg_gait	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	All Ortho Leg-Related or Gait Disorders	11,945	4.49	0.76	4,408	(3.07)	(0.22)
i_bdmi_0_loco_ge3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Locomotion >= 3	4,644	(6.58)	(0.96)	1,384	(35.11)	(1.87)
i_bdmi_0_new_blind	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Primary or Secondary Blindness or Low Vision	368	(24.07)	(1.29)	40	191.16	2.28
pdmi_1_all	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes		14,573	27.27	4.95	1,390	10.66	0.49
sdmi_1_all	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes		27,770	0.35	0.07	5,725	40.31	2.40
i_bdmi_1_btrauma_l2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Other Trauma (Post-Operative Wounds)	2,235	18.90	1.94	218	145.01	3.66
i_bdmi_1_btrauma2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Ulcer, Skin Disorders, Cellulitis	5,172	(0.85)	(0.13)	389	(89.07)	(2.85)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bdmi_1_multpalc	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Multiple Pressure Ulcers	240	(53.46)	(2.10)	44	29.82	0.33
i_bdmi_1_press12	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Pressure Ulcers 1or 2	2,502	4.61	0.52	617	78.03	2.98
i_bdmi_1_press34	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Pressure Ulcers 3 or 4	1,038	49.25	3.69	164	16.93	0.40
i_bdmi_1_surg2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Surgical Wound healing status = 2	5,986	(7.82)	(0.94)	845	(179.41)	(5.48)
i_bdmi_1_surg3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Surgical Wound healing status = 3	1,901	(20.10)	(1.50)	171	(153.03)	(2.23)
i_bdmi_1_bpsych1	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Psychiatric Affective, Depressive, Other Psychoses	1,547	(14.08)	(1.38)	158	100.17	2.60
i_bdmi_1_bpsych2_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	1,562	13.76	1.37	220	(75.81)	(2.12)
i_bdmi_1_new_bpulm	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Pulmonary	4,594	9.10	1.27	554	(19.14)	(0.75)
i_bdmi_1_ther_ip	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	IV or Parenteral Therapy	1,396	(0.31)	(0.02)	77	(49.06)	(0.75)
i_bdmi_1_bortho1_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	All Ortho Except Gait and Leg	4,114	6.64	1.05	924	22.69	1.17
i_bdmi_1_bleg_gait	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	All Ortho Leg-Related or Gait Disorders	8,159	(0.49)	(0.08)	2,984	(19.80)	(1.37)
i_bdmi_1_loco_ge3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Locomotion >= 3	4,806	(4.62)	(0.68)	1,361	(10.64)	(0.56)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bdmi_1_new_blind	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Primary or Secondary Blindness or Low Vision	505	(14.65)	(0.85)	57	142.44	1.78
new_ppulm	Primary Pulmonary (Including COPD)		15,705	27.40	6.39	1,060	84.27	3.88
new_spulm	Secondary Pulmonary (Including COPD)		38,259	14.86	3.68	5,953	18.89	0.92
i_new_bpulm_bheart_a	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Heart A	210	20.90	1.10	13	(129.25)	(1.59)
i_new_bpulm_bheart_b	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Heart B	6,962	(1.87)	(0.52)	677	(10.40)	(0.93)
i_new_bpulm_bheart_c	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Heart C	13,529	(6.08)	(2.10)	1,516	(12.13)	(1.46)
i_new_bpulm_bhypertension_a	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Hypertension A	16,627	(3.94)	(1.49)	1,659	(16.48)	(2.15)
i_new_bpulm_bhypertension_b	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Hypertension B	1,146	(5.27)	(0.63)	77	(41.99)	(1.35)
i_new_bpulm_bhypertension_c	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Hypertension C	191	(19.37)	(0.98)	15	68.22	0.97
i_new_bpulm_bortho1_dd2	Primary or Secondary Pulmonary (Including COPD)	All Ortho Except Gait and Leg	5,800	10.42	2.73	978	35.63	3.84
i_new_bpulm_bleg_gait	Primary or Secondary Pulmonary (Including COPD)	All Ortho Leg-Related or Gait Disorders	8,564	11.47	3.49	2,749	16.62	2.45
i_new_bpulm_btrauma_l2	Primary or Secondary Pulmonary (Including COPD)	Other Trauma (Post-Operative Wounds)	1,513	(6.48)	(0.94)	123	7.28	0.30
i_new_bpulm_btrauma2	Primary or Secondary Pulmonary (Including COPD)	Ulcer, Skin Disorders, Cellulitis	1,641	(3.90)	(0.58)	130	(15.61)	(0.66)
i_new_bpulm_loco_ge1	Primary or Secondary Pulmonary (Including COPD)	Locomotion = 1 or 2	43,491	3.47	0.97	6,077	8.36	0.42
i_new_bpulm_loco_ge3	Primary or Secondary Pulmonary (Including COPD)	Locomotion >= 3	3,337	6.82	1.19	736	18.89	0.87
i_new_bpulm_dysp234	Primary or Secondary Pulmonary (Including COPD)	Dyspnea	41,720	(1.62)	(0.58)	5,376	15.45	2.07
ptrauma_l2	Primary Other Trauma (Post-Operative Wounds)		14,849	98.08	26.03	738	220.90	11.76
strauma_l2	Secondary Other Trauma (Post-Operative Wounds)		7,805	56.74	12.14	1,366	101.43	5.47
i_btrauma_l2_bortho1_dd2	Primary or Secondary Other Trauma (Post-Operative Wounds)	All Ortho Except Gait and Leg	1,920	1.59	0.26	299	(8.73)	(0.54)
i_btrauma_l2_bleg_gait	Primary or Secondary Other Trauma (Post-Operative Wounds)	All Ortho Leg-Related or Gait Disorders	3,429	26.28	5.26	954	1.59	0.13

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_btrauma_i2_ther_ip	Primary or Secondary Other Trauma (Post-Operative Wounds)	IV or Parenteral Therapy	1,103	35.07	4.22	68	(10.77)	(0.32)
i_btrauma_i2_ostomy12	Primary or Secondary Other Trauma (Post-Operative Wounds)	Ostomy	930	36.43	3.99	70	(25.59)	(0.78)
i_btrauma_i2_ucontnew	Primary or Secondary Other Trauma (Post-Operative Wounds)	Urinary Incontinence	5,975	(5.50)	(1.36)	742	(20.75)	(1.74)
i_btrauma_i2_multpulc	Primary or Secondary Other Trauma (Post-Operative Wounds)	Multiple Pressure Ulcers	147	(81.92)	(3.73)	17	(176.22)	(2.71)
i_btrauma_i2_dress13	Primary or Secondary Other Trauma (Post-Operative Wounds)	Dressing 1 to 3	14,558	6.04	1.61	1,808	(3.46)	(0.21)
i_btrauma_i2_new_blind	Primary or Secondary Other Trauma (Post-Operative Wounds)	Primary or Secondary Blindness or Low Vision	107	1.91	0.08	3	(102.89)	(0.68)
new_ptrauma2	Primary Ulcer, Skin Disorders, Cellulitis		11,238	68.75	17.65	550	180.16	9.14
new_strauma2	Secondary Ulcer, Skin Disorders, Cellulitis		14,073	59.82	14.46	1,522	100.51	5.36
i_btrauma2_bortho1_dd2	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	All Ortho Except Gait and Leg	1,793	(2.35)	(0.37)	200	23.65	1.22
i_btrauma2_bleg_gait	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	All Ortho Leg-Related or Gait Disorders	3,221	13.97	2.77	798	(5.98)	(0.50)
i_btrauma2_ther_ip	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	IV or Parenteral Therapy	1,556	13.13	1.78	67	(23.14)	(0.68)
i_btrauma2_ostomy12	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Ostomy	453	(4.28)	(0.34)	32	79.26	1.71
i_btrauma2_ucontnew	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Urinary Incontinence	6,687	1.70	0.44	737	29.98	2.49
i_btrauma2_multpulc	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Multiple Pressure Ulcers	425	(11.41)	(0.80)	37	4.80	0.10
i_btrauma2_dress13	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Dressing 1 to 3	15,790	(5.13)	(1.46)	1,792	6.38	0.38
i_btrauma2_new_blind	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Primary or Secondary Blindness or Low Vision	146	(6.47)	(0.30)	8	176.86	1.91
portho1_dd2	Primary All Ortho Except Gait and Leg		22,414	(19.21)	(4.14)	5,944	(57.12)	(3.86)
sortho1_dd2	Secondary All Ortho Except Gait and Leg		49,608	(10.60)	(2.36)	12,025	(60.50)	(4.07)
pleg_all	Primary All Ortho Leg-Related Disorders		7,685	(17.27)	(1.19)	3,156	5.12	0.11
sleg_all	Secondary All Ortho Leg-Related Disorders		9,802	(3.75)	(0.26)	4,008	2.61	0.06
pgait	Primary Gait Disorders		82,665	(32.61)	(5.86)	33,120	(2.04)	(0.14)
Sgait	Secondary Gait Disorders		46,440	18.05	3.24	16,222	23.46	1.62
i_bortho1_dd2_dysp234	Primary or Secondary All Ortho Except Gait and Leg	Dyspnea	30,743	9.00	3.92	6,538	(9.36)	(2.02)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bortho1_dd2_press1234	Primary or Secondary All Ortho Except Gait and Leg	Pressure Ulcers 1 to 4	3,054	14.88	2.85	763	7.36	0.71
i_bortho1_dd2_multpulc	Primary or Secondary All Ortho Except Gait and Leg	Multiple Pressure Ulcers	183	(45.14)	(2.22)	20	(0.38)	(0.01)
i_bortho1_dd2_ther_ip	Primary or Secondary All Ortho Except Gait and Leg	IV or Parenteral Therapy	1,137	25.29	3.11	82	46.58	1.53
i_bortho1_dd2_ucontnew	Primary or Secondary All Ortho Except Gait and Leg	Urinary Incontinence	23,729	(0.18)	(0.08)	5,736	11.41	2.42
i_bortho1_dd2_dress13	Primary or Secondary All Ortho Except Gait and Leg	Dressing 1 to 3	53,002	5.68	2.05	14,773	11.64	1.81
i_bortho1_dd2_bth_ge2	Primary or Secondary All Ortho Except Gait and Leg	Bathing >= 2	56,695	5.59	1.91	15,747	9.52	1.28
i_bortho1_dd2_toi_ge2	Primary or Secondary All Ortho Except Gait and Leg	Toileting >= 2	8,014	1.70	0.41	2,874	9.21	1.28
i_bortho1_dd2_tfr_ge1	Primary or Secondary All Ortho Except Gait and Leg	Transferring = 1	50,733	(1.31)	(0.43)	12,699	15.46	2.12
i_bortho1_dd2_tfr_ge2	Primary or Secondary All Ortho Except Gait and Leg	Transferring >= 2	7,325	(4.88)	(0.92)	2,955	(4.26)	(0.42)
i_bortho1_dd2_loco_ge1	Primary or Secondary All Ortho Except Gait and Leg	Locomotion = 1 or 2	63,079	(8.08)	(1.72)	15,722	26.53	1.78
i_bortho1_dd2_loco_ge3	Primary or Secondary All Ortho Except Gait and Leg	Locomotion >= 3	4,549	(0.34)	(0.05)	1,746	3.76	0.22
i_bleg_dysp234	Primary or Secondary All Ortho Leg-Related Disorders	Dyspnea	5,372	11.19	2.55	2,200	5.88	0.85
i_bleg_press1234	Primary or Secondary All Ortho Leg-Related Disorders	Pressure Ulcers 1 to 4	1,325	10.76	1.37	582	(13.96)	(1.18)
i_bleg_multpulc	Primary or Secondary All Ortho Leg-Related Disorders	Multiple Pressure Ulcers	95	11.28	0.41	23	(2.85)	(0.05)
i_bleg_ther_ip	Primary or Secondary All Ortho Leg-Related Disorders	IV or Parenteral Therapy	724	64.71	6.25	47	86.17	2.21
i_bleg_ucontnew	Primary or Secondary All Ortho Leg-Related Disorders	Urinary Incontinence	4,468	(2.25)	(0.48)	2,049	(4.06)	(0.57)
i_bleg_dress13	Primary or Secondary All Ortho Leg-Related Disorders	Dressing 1 to 3	13,751	3.59	0.65	6,254	31.20	2.98
i_bleg_bth_ge2	Primary or Secondary All Ortho Leg-Related Disorders	Bathing >= 2	15,066	8.40	1.33	6,665	(16.22)	(1.23)
i_bleg_toi_ge2	Primary or Secondary All Ortho Leg-Related Disorders	Toileting >= 2	3,201	(6.92)	(1.03)	1,781	1.41	0.15

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs One and Two**

			Leg One			Leg Two		
			N	Coeff	TStat	N	Coeff	TStat
i_bleg_tfr_ge1	Primary or Secondary All Ortho Leg-Related Disorders	Transferring = 1	12,213	(4.38)	(0.66)	4,791	(31.95)	(2.46)
i_bleg_tfr_ge2	Primary or Secondary All Ortho Leg-Related Disorders	Transferring >= 2	3,157	4.17	0.44	1,871	(37.78)	(2.39)
i_bleg_loco_ge1	Primary or Secondary All Ortho Leg-Related Disorders	Locomotion = 1 or 2	14,622	(16.84)	(1.13)	5,791	21.00	0.46
i_bleg_loco_ge3	Primary or Secondary All Ortho Leg-Related Disorders	Locomotion >= 3	2,523	(5.66)	(0.35)	1,340	(2.81)	(0.06)
i_bgait_dysp234	Primary or Secondary Gait Disorders	Dyspnea	44,112	14.72	7.77	17,441	(0.02)	(0.01)
i_bgait_press1234	Primary or Secondary Gait Disorders	Pressure Ulcers 1 to 4	5,924	26.15	6.60	2,925	11.43	1.68
i_bgait_multpulc	Primary or Secondary Gait Disorders	Multiple Pressure Ulcers	202	(8.04)	(0.42)	112	(55.85)	(1.69)
i_bgait_ther_ip	Primary or Secondary Gait Disorders	IV or Parenteral Therapy	789	31.18	3.29	248	44.82	2.16
i_bgait_ucontnew	Primary or Secondary Gait Disorders	Urinary Incontinence	36,467	10.25	5.26	16,252	5.76	1.59
i_bgait_dress13	Primary or Secondary Gait Disorders	Dressing 1 to 3	99,174	5.05	2.18	41,595	(3.25)	(0.62)
i_bgait_bth_ge2	Primary or Secondary Gait Disorders	Bathing >= 2	108,231	(12.23)	(4.84)	44,616	(1.92)	(0.31)
i_bgait_toi_ge2	Primary or Secondary Gait Disorders	Toileting >= 2	15,183	(0.65)	(0.19)	8,895	(2.88)	(0.53)
i_bgait_tfr_ge1	Primary or Secondary Gait Disorders	Transferring = 1	96,754	(2.60)	(1.00)	35,494	6.41	1.06
i_bgait_tfr_ge2	Primary or Secondary Gait Disorders	Transferring >= 2	14,708	(8.23)	(1.91)	9,439	(7.06)	(0.88)
i_bgait_loco_ge1	Primary or Secondary Gait Disorders	Locomotion = 1 or 2	119,191	(28.44)	(5.02)	43,581	(36.94)	(2.52)
i_bgait_loco_ge3	Primary or Secondary Gait Disorders	Locomotion >= 3	7,488	(21.78)	(3.12)	5,315	(23.10)	(1.46)
new_blind_I	Primary or Secondary Blindness or Low Vision		2,540	22.49	3.39	330	9.85	0.59
v_trach	V Codes Tracheotomy		935	37.68	4.49	118	50.91	2.16
v_urinary	V Codes Urinary		1,203	56.19	7.66	72	174.19	5.82
v_cysto	V Codes Cystomy		402	39.36	3.11	49	215.76	5.96

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
Adjusted R Square			0.4718					
Mean Resource Use				372.22			940.92	
Intercept								
leg2	2nd All Ortho Leg-Related Disorders Dummy							
leg3	3rd All Ortho Leg-Related Disorders Dummy		207,525	33.14	6.80			
leg4	4th All Ortho Leg-Related Disorders Dummy					16,990	450.65	15.12
ther_01	1 Therapy Visit		4,977		-	-		
ther_02	2 Therapy Visits		2,734		-	-		
ther_03	3 Therapy Visits		2,493		-	-		
ther_04	4 Therapy Visits		2,551		-	-		
ther_05	5 Therapy Visits		2,594		-	-		
ther_06	6 Therapy Visits		2,510	147.78	28.76	-		
ther_07	7 Therapy Visits		2,112	191.09	34.21	-		
ther_08	8 Therapy Visits		2,006	215.07	37.50	-		
ther_09	9 Therapy Visits		1,927	256.98	43.98	-		
ther_10	10 Therapy Visits		6,610	330.62	101.42	-		
ther_11	11 Therapy Visits		5,223	366.68	100.31	-		
ther_12	12 Therapy Visits		5,422	396.29	109.79	-		
ther_13	13 Therapy Visits		3,527	451.81	102.76	-		
ther_15	15 Therapy Visits		-			2,582	33.22	4.76
ther_16	16 Therapy Visits		-			2,367	53.02	7.43
ther_17	17 Therapy Visits		-			2,107	75.90	10.30
ther_18	18 Therapy Visits		-			1,384	124.96	14.88
ther_19	19 Therapy Visits		-			825	159.62	15.73
ther_20	20 Therapy Visits		-			738	358.22	58.25
ther_21	21 Therapy Visits		-			657	358.22	58.25
ther_22	22 Therapy Visits		-			596	358.22	58.25
ther_23	23 Therapy Visits		-			483	358.22	58.25
ther_24	24 Therapy Visits		-			489	358.22	58.25
ther_25	25 Therapy Visits		-			383	358.22	58.25
ther_26	26 Therapy Visits		-			299	358.22	58.25
ther_27	27 Therapy Visits		-			195	358.22	58.25
ther_28	28 Therapy Visits		-			162	358.22	58.25
ther_29	29 Therapy Visits		-			136	358.22	58.25



**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
ther_30	30 or More Therapy Visits		-			759	358.22	58.25
ther_IP	IV Therapy or Parenteral Therapy		5,224	49.54	8.57	288	208.29	7.60
ther_e	Enteral Therapy		7,147	4.56	1.18	461	94.01	6.02
pain23	Pain		118,685	8.86	7.14	10,138	3.52	0.82
vis_ge1	Vision		102,967	(11.70)	(8.75)	7,219	(9.05)	(1.64)
i_vis_ge1_injmeduse_0	Vision	Injectable Drug Use Known to Be No	12,573	26.99	8.14	2,100	55.60	6.28
i_vis_ge1_injmeduse_1	Vision	Injectable Drug Use Known to Be Yes	4,374	26.66	4.88	672	41.31	2.93
ucontnew	Urinary Incontinence		95,687	(15.08)	(8.98)	7,977	(17.25)	(2.47)
bcont2_5	Incontinence		46,541	18.10	10.64	3,386	4.06	0.70
ostomy12	Ostomy		5,374	34.43	7.48	334	64.03	3.77
mulpulc	Multiple Pressure Ulcers		3,737	61.95	8.64	147	136.11	3.36
press12	Pressure Ulcer stage = 1 and/or 2		14,685	53.79	15.38	1,328	140.88	10.64
press34	Pressure Ulcer stage = 3 and/or 4		10,931	132.85	29.73	536	199.66	10.03
l_ucont_mulpulc	Urinary Incontinence	Multiple Pressure Ulcers	1,051	(5.44)	(0.50)	62	(32.81)	(0.64)
l_ucont_press12	Urinary Incontinence	Pressure Ulcer stage = 1 and/or 2	6,586	(22.12)	(4.98)	658	(48.05)	(3.22)
l_ucont_press34	Urinary Incontinence	Pressure Ulcer stage = 3 and/or 4	3,537	(27.25)	(4.29)	223	(6.61)	(0.25)
stasis2	Stasis Ulcer healing status = 2		5,490	64.49	13.38	255	152.93	6.67
stasis3	Stasis Ulcer healing status = 3		3,730	98.28	16.87	145	75.03	2.60
surg2	Surgical Wound healing status = 2		6,664	29.33	7.06	764	45.67	3.90
surg3	Surgical Wound healing status = 3		3,145	46.08	7.57	165	47.71	1.78
dysp234	Dyspnea 2 to 4		131,110	(4.36)	(2.30)	9,632	39.95	5.59
dress13	Dressing 1 to 3		156,075	12.55	4.33	14,655	(32.77)	(2.55)
bth_ge2	Bathing >= 2		169,426	52.63	17.44	15,477	89.17	5.88
toi_ge2	Toileting >= 2		55,180	17.68	5.12	4,928	38.92	3.45
tfr_ge1	Transferring = 1		124,438	3.34	1.10	10,685	(45.50)	(3.27)
tfr_ge2	Transferring >= 2		49,294	4.91	1.03	4,842	13.05	0.73
loco_ge1	Locomotion = 1 or 2		148,594	15.91	3.60	13,048	3.14	0.10
loco_ge3	Locomotion >= 3		47,105	38.34	6.81	3,710	15.89	0.49
pMS_I	Primary MS		1,896	4.24	0.09	197	1.37	0.02
sMS_I	Secondary MS		3,298	(31.26)	(0.69)	203	(18.73)	(0.24)
i_bms_bdm	Primary or Secondary MS (Updated)	Diabetes (250.xx) and DM Manifestation Codes	594	15.06	1.28	31	166.88	2.84
i_bms_bdmi_0	Primary or Secondary MS (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	31	56.30	1.18	4	(609.48)	(3.82)
i_bms_bdmi_1	Primary or Secondary MS (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	33	(11.82)	(0.26)	4	257.06	1.81

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bms_dress13	Primary or Secondary MS (Updated)	Dressing 1 to 3	4,746	20.24	1.15	349	82.27	1.62
i_bms_bth_ge2	Primary or Secondary MS (Updated)	Bathing >= 2	4,866	22.28	1.18	383	93.81	1.29
i_bms_toi_ge2	Primary or Secondary MS (Updated)	Toileting >= 2	3,711	34.98	2.71	227	119.94	3.03
i_bms_tfr_ge1	Primary or Secondary MS (Updated)	Transferring = 1	1,129	(31.62)	(1.53)	132	(47.25)	(0.79)
i_bms_tfr_ge2	Primary or Secondary MS (Updated)	Transferring >= 2	3,856	23.53	0.98	240	(126.63)	(1.84)
i_bms_loco_ge1	Primary or Secondary MS (Updated)	Locomotion = 1 or 2	931	53.06	1.14	122	28.45	0.74
i_bms_loco_ge3	Primary or Secondary MS (Updated)	Locomotion >= 3	4,229	53.59	1.13	278	-	.
i_bms_new_blind	Primary or Secondary MS (Updated)	Vision >= 1	71	77.56	2.44	2	575.01	2.71
pBLOOD	Primary Blood Disorders		8,818	(11.07)	(3.79)	125	0.85	0.04
sBLOOD	Secondary Blood Disorders		14,877	8.92	4.09	955	14.04	1.62
new_ppsych1	Primary Psychiatric/Affective, Depressive, Other Psychoses		3,121	(12.91)	(2.08)	81	104.76	2.64
new_spsych1	Secondary Psychiatric/Affective, Depressive, Other Psychoses		11,000	5.37	0.92	693	150.94	4.67
i_bpsych1_dress13	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Dressing 1 to 3	9,283	6.09	1.04	643	10.46	0.36
i_bpsych1_bth_ge2	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Bathing >= 2	10,478	15.42	2.48	691	(81.98)	(2.39)
i_bpsych1_toi_ge2	Primary or Secondary Psychiatric/Affective, Depressive, Other Psychoses	Toileting >= 2	2,205	(5.24)	(0.82)	181	(12.12)	(0.52)
new_ppsych2_dd2	Primary Psychiatric/Degenerative, Other Organic Psychoses (Updated)		4,936	(9.46)	(2.22)	156	35.42	1.62
new_spsych2_dd2	Secondary Psychiatric/Degenerative, Other Organic Psychoses (Updated)		15,188	4.66	1.53	1,009	31.60	2.87
pgi_dd	Primary GI and Abnormal Weight Loss		2,624	5.41	0.99	81	15.53	0.51
sqi_dd	Secondary GI and Abnormal Weight Loss		15,818	7.70	2.43	782	49.16	3.11
i_bgi_dd_bortho1_dd2	Primary or Secondary GI and Abnormal Weight Loss	All Ortho Except Gait and Leg	5,098	(2.81)	(0.62)	183	4.91	0.22
i_bgi_dd_bleg_gait	Primary or Secondary GI and Abnormal Weight Loss	All Ortho Leg-Related or Gait Disorders	1,530	14.52	2.06	296	(8.22)	(0.43)
i_bgi_dd_btrauma_l2	Primary or Secondary GI and Abnormal Weight Loss	Other Trauma (Post-Operative Wounds)	542	(15.45)	(1.34)	30	9.40	0.18
i_bgi_dd_btrauma2	Primary or Secondary GI and Abnormal Weight Loss	Ulcer, Skin Disorders, Cellulitis	484	5.74	0.48	11	(68.08)	(0.86)
i_bgi_dd_bdm	Primary or Secondary GI and Abnormal Weight Loss	Diabetes (250.xx) and DM Manifestation Codes	5,039	(9.27)	(2.10)	181	(23.95)	(0.82)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bgi_dd_bdmi_0	Primary or Secondary GI and Abnormal Weight Loss	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	503	19.77	1.61	46	45.89	0.95
i_bgi_dd_bdmi_1	Primary or Secondary GI and Abnormal Weight Loss	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	457	20.43	1.64	46	30.45	0.63
i_bgi_dd_new_bneuro1	Primary or Secondary GI and Abnormal Weight Loss	Paralysis, Brain Other Than Hemorrhage or Other Neurological Updated	405	76.65	5.75	23	259.74	4.44
i_bgi_dd_stroke_and_neuro2	Primary or Secondary GI and Abnormal Weight Loss	Stroke and Brain Hemorrhage or Peripheral Neurological Disorder	2,068	11.62	1.87	162	(45.61)	(1.96)
i_bgi_dd_ostomy12	Primary or Secondary GI and Abnormal Weight Loss	Ostomy	900	8.73	0.89	47	(58.74)	(1.39)
i_bgi_dd_ther_ip	Primary or Secondary GI and Abnormal Weight Loss	IV or Parenteral Therapy	743	(3.26)	(0.31)	22	(24.56)	(0.41)
i_bgi_dd_ther_e	Primary or Secondary GI and Abnormal Weight Loss	Enteral Therapy	721	12.22	1.19	34	(38.81)	(0.82)
pdysphagia	Primary Dysphagia		255	(32.47)	(1.88)	51	(30.36)	(0.79)
sdysphagia	Secondary Dysphagia		2,943	(11.06)	(1.31)	387	15.42	0.63
i_bdisphagia_bortho1_dd2	Primary or Secondary Dysphagia	All Ortho Except Gait and Leg	247	34.15	1.98	44	(22.19)	(0.53)
i_bdisphagia_bleg_gait	Primary or Secondary Dysphagia	All Ortho Leg-Related or Gait Disorders	209	22.19	1.20	124	53.87	1.87
i_bdisphagia_btrauma_l2	Primary or Secondary Dysphagia	Other Trauma (Post-Operative Wounds)	82	39.44	1.38	6	(273.97)	(2.53)
i_bdisphagia_btrauma2	Primary or Secondary Dysphagia	Ulcer, Skin Disorders, Cellulitis	77	(41.26)	(1.39)	5	(276.11)	(2.27)
i_bdisphagia_bdm	Primary or Secondary Dysphagia	Diabetes (250.xx) and DM Manifestation Codes	577	(14.82)	(1.17)	69	38.49	0.96
i_bdisphagia_bdmi_0	Primary or Secondary Dysphagia	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	59	8.88	0.25	10	417.37	4.59
i_bdisphagia_bdmi_1	Primary or Secondary Dysphagia	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	50	(14.37)	(0.39)	15	57.82	0.74
i_bdisphagia_new_bneuro1	Primary or Secondary Dysphagia	Paralysis, Brain Other Than Hemorrhage or Other Neurological Updated	166	91.83	4.36	17	27.33	0.41
i_bdisph_stroke_and_neuro2	Primary or Secondary Dysphagia	Stroke and Brain Hemorrhage or Peripheral Neurological Disorder	1,065	20.14	2.03	195	48.95	1.89
i_bdisphagia_ostomy12	Primary or Secondary Dysphagia	Ostomy	50	13.10	0.36	7	463.26	4.59
i_bdisphagia_ther_ip	Primary or Secondary Dysphagia	IV or Parenteral Therapy	93	(12.21)	(0.45)	6	(1.72)	(0.02)
i_bdisphagia_ther_e	Primary Cancer	Enteral Therapy	1,656	(4.38)	(0.44)	147	(30.61)	(1.00)
pcancer_l	Secondary Cancer		3,432	25.51	5.09	110	71.89	2.62
scancer_l	Primary Cancer		6,201	20.43	4.51	367	73.47	3.61
i_bccancer_l_btrauma_l2	Primary or Secondary Cancer	Other Trauma (Post-Operative Wounds)	528	14.76	1.24	13	(285.64)	(3.74)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bcancer_i_btrauma2	Primary or Secondary Cancer	Ulcer, Skin Disorders, Cellulitis	282	18.76	1.20	12	(191.94)	(2.44)
i_bcancer_i_new_bpsych1	Primary or Secondary Cancer	Psychiatric Affective, Depressive, Other Psychoses	484	22.09	1.83	26	5.24	0.10
i_bcancer_i_new_bpsych2_dd2	Primary or Secondary Cancer	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	418	(13.67)	(1.06)	19	(35.42)	(0.59)
i_bcancer_i_bdm	Primary or Secondary Cancer	Diabetes (250.xx) and DM Manifestation Codes	2,218	(9.36)	(1.41)	90	25.66	0.62
i_bcancer_i_bdmi_0	Primary or Secondary Cancer	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	220	16.30	0.89	26	(95.28)	(1.48)
i_bcancer_i_bdmi_1	Primary or Secondary Cancer	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	196	(19.11)	(1.00)	17	(63.20)	(0.86)
i_bcancer_i_new_bneuro1	Primary or Secondary Cancer	Paralysis, Brain Other Than Hemorrhage or Other Neurological Updated	155	81.98	3.89	16	202.77	2.90
i_bcancer_i_stroke_and_neuro2	Primary or Secondary Cancer	Stroke and Brain Hemorrhage or Peripheral Neurological Disorder	765	(21.95)	(2.25)	58	83.44	2.26
i_bcancer_i_ostomy12	Primary or Secondary Cancer	Ostomy	719	(22.58)	(2.12)	24	29.72	0.53
i_bcancer_i_bortho1_dd2	Primary or Secondary Cancer	All Ortho Except Gait and Leg	1,311	2.15	0.28	55	(33.39)	(0.89)
i_bcancer_i_bleg_gait	Primary or Secondary Cancer	All Ortho Leg-Related or Gait Disorders	748	33.13	3.35	146	95.68	3.62
new_pneuro1	Primary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)		1,070	(5.56)	(0.13)	167	(8.59)	(0.05)
new_sneuro1	Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)		5,096	(52.11)	(1.27)	235	(121.94)	(0.74)
pp_neuro_dd	Primary Peripheral Neurological Disorders (Updated)		2,946	28.04	3.04	464	0.13	-
sp_neuro_dd	Secondary Peripheral Neurological Disorders (Updated)		9,834	2.10	0.13	950	(93.56)	(0.70)
i_new_bneuro1_bdm	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Diabetes (250.xx) and DM Manifestation Codes	1,003	(8.26)	(0.86)	67	39.67	0.93
i_new_bneuro1_bdmi_0	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	89	(13.23)	(0.46)	12	(64.24)	(0.71)
i_new_bneuro1_bdmi_1	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	63	(43.55)	(1.28)	9	116.30	1.20
i_new_bneuro1_btrauma_12	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Other Trauma (Post-Operative Wounds)	339	(27.26)	(1.80)	13	427.79	5.24
i_new_bneuro1_btrauma2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Ulcer, Skin Disorders, Cellulitis	304	(59.94)	(3.77)	15	(153.10)	(2.06)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_new_bneuro1_stasis2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Stasis Ulcer healing status = 2	184	(9.00)	(0.46)	4	(504.08)	(3.71)
i_new_bneuro1_stasis3	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Stasis Ulcer healing status = 3	106	(68.35)	(2.68)	3	121.67	0.79
i_new_bneuro1_ucontnew	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Urinary Incontinence	1,373	(16.50)	(1.99)	148	(5.37)	(0.19)
i_new_bneuro1_ther_ip	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	IV or Parenteral Therapy	311	(52.97)	(3.42)	9	(29.00)	(0.31)
i_new_bneuro1_bheart_a	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Heart A	5	96.68	0.84	-	-	.
i_new_bneuro1_bheart_b	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Heart B	106	10.04	0.40	9	(303.46)	(3.36)
i_new_bneuro1_bheart_c	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Heart C	229	(49.38)	(2.81)	6	236.61	2.11
i_new_bneuro1_bhypertension_a	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Hypertension A	942	(7.40)	(0.77)	68	19.43	0.54
i_new_bneuro1_bhypertension_b	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Hypertension B	69	(33.28)	(1.05)	2	181.48	0.96
i_new_bneuro1_bhypertension_c	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Primary or Secondary Hypertension C	21	79.06	1.37	-	-	.
i_new_bneuro1_bortho_dd2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	All Ortho Except Gait and Leg	553	(17.10)	(1.43)	55	(69.72)	(1.76)
i_new_bneuro1_bleg_gait	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	All Ortho Leg-Related or Gait Disorders	336	(34.11)	(2.20)	98	(46.89)	(1.43)
i_new_bneuro1_dress13	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Dressing 1 to 3	5,645	(6.63)	(0.42)	364	107.08	1.82
i_new_bneuro1_bth_ge2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Bathing >= 2	5,775	(23.97)	(1.42)	378	(330.20)	(4.75)
i_new_bneuro1_toi_ge2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Toileting >= 2	4,645	13.18	1.10	228	99.95	2.73
i_new_bneuro1_lfr_ge1	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Transferring = 1	1,481	29.22	1.84	144	109.79	1.81
i_new_bneuro1_lfr_ge2	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Transferring >= 2	4,289	64.75	3.59	227	92.81	1.36
i_new_bneuro1_loco_ge1	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Locomotion = 1 or 2	841	82.21	1.92	159	289.28	1.77

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_new_bneuro1_loco_ge3	Primary or Secondary Paralysis, Brain Other Than Hemorrhage, or Other Neurological (Updated)	Locomotion >= 3	5,285	61.99	1.45	240	195.84	1.18
i_bp_neuro_dd_bdm	Primary or Secondary Peripheral Neurological Disorders (Updated)	Diabetes (250.xx) and DM Manifestation Codes	8,235	4.13	1.58	638	5.68	0.54
i_bp_neuro_dd_bdmi_0	Primary or Secondary Peripheral Neurological Disorders (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	572	(3.18)	(0.40)	104	(15.99)	(0.77)
i_bp_neuro_dd_bdmi_1	Primary or Secondary Peripheral Neurological Disorders (Updated)	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	559	11.28	1.48	114	(41.05)	(2.16)
i_bp_neuro_dd_btrauma_l2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Other Trauma (Post-Operative Wounds)	787	(2.61)	(0.38)	57	68.26	2.58
i_bp_neuro_dd_btrauma2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Ulcer, Skin Disorders, Cellulitis	1,018	4.53	0.72	87	5.81	0.25
i_bp_neuro_dd_stasis2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Stasis Ulcer healing status = 2	431	(0.91)	(0.10)	30	(48.02)	(1.27)
i_bp_neuro_dd_stasis3	Primary or Secondary Peripheral Neurological Disorders (Updated)	Stasis Ulcer healing status = 3	275	22.86	1.99	12	23.94	0.43
i_bp_neuro_dd_ucontnew	Primary or Secondary Peripheral Neurological Disorders (Updated)	Urinary Incontinence	12,310	0.46	0.17	1,179	(12.33)	(1.44)
i_bp_neuro_dd_ther_ip	Primary or Secondary Peripheral Neurological Disorders (Updated)	IV or Parenteral Therapy	419	18.00	1.89	32	(18.33)	(0.50)
i_bp_neuro_dd_bheart_a	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Heart A	46	74.76	2.67	6	82.62	0.84
i_bp_neuro_dd_bheart_b	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Heart B	1,455	(4.21)	(0.82)	140	(23.67)	(1.34)
i_bp_neuro_dd_bheart_c	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Heart C	3,239	3.42	0.94	252	(15.55)	(1.18)
i_bp_neuro_dd_bhypertension_a	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Hypertension A	6,574	(9.23)	(3.18)	500	(13.87)	(1.37)
i_bp_neuro_dd_bhypertension_b	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Hypertension B	1,000	(7.65)	(1.22)	38	2.35	0.07
i_bp_neuro_dd_bhypertension_c	Primary or Secondary Peripheral Neurological Disorders (Updated)	Primary or Secondary Hypertension C	133	22.91	1.36	5	4.25	0.04
i_bp_neuro_dd_bortho1_dd2	Primary or Secondary Peripheral Neurological Disorders (Updated)	All Ortho Except Gait and Leg	4,852	1.33	0.42	433	23.11	2.15
i_bp_neuro_dd_bleg_gait	Primary or Secondary Peripheral Neurological Disorders (Updated)	All Ortho Leg-Related or Gait Disorders	3,154	8.96	2.36	1,119	14.73	1.73

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bp_neuro_dd_dress13	Primary or Secondary Peripheral Neurological Disorders (Updated)	Dressing 1 to 3	18,760	1.77	0.42	2,121	(3.66)	(0.23)
i_bp_neuro_dd_bth_ge2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Bathing >= 2	19,758	1.80	0.39	2,215	4.61	0.24
i_bp_neuro_dd_toi_ge2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Toileting >= 2	7,280	6.64	1.55	681	17.58	1.41
i_bp_neuro_dd_tfr_ge1	Primary or Secondary Peripheral Neurological Disorders (Updated)	Transferring = 1	13,218	0.14	0.03	1,527	12.54	0.67
i_bp_neuro_dd_tfr_ge2	Primary or Secondary Peripheral Neurological Disorders (Updated)	Transferring >= 2	7,023	1.65	0.25	697	26.55	1.20
i_bp_neuro_dd_loco_ge1	Primary or Secondary Peripheral Neurological Disorders (Updated)	Locomotion = 1 or 2	15,787	(1.10)	(0.13)	1,890	31.84	0.48
i_bp_neuro_dd_loco_ge3	Primary or Secondary Peripheral Neurological Disorders (Updated)	Locomotion >= 3	6,223	(9.77)	(1.01)	464	4.71	0.07
pstroke_dd2	Primary Stroke and Brain Hemorrhage		4,232	16.88	1.15	950	(108.47)	(1.91)
sstroke_dd2	Secondary Stroke and Brain Hemorrhage		13,567	2.91	0.20	1,574	(181.86)	(3.20)
i_bstroke_dd2_bdm	Primary or Secondary Stroke and Brain Hemorrhage	Diabetes (250.xx) and DM Manifestation Codes	5,675	(15.10)	(3.42)	652	32.32	2.05
i_bstroke_dd2_bdmi_0	Primary or Secondary Stroke and Brain Hemorrhage	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	491	36.69	2.94	133	(47.93)	(1.68)
i_bstroke_dd2_bdmi_1	Primary or Secondary Stroke and Brain Hemorrhage	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	439	(23.23)	(1.79)	135	1.28	0.05
i_bstroke_dd2_btrauma_l2	Primary or Secondary Stroke and Brain Hemorrhage	Other Trauma (Post-Operative Wounds)	412	(44.47)	(3.40)	36	53.98	1.19
i_bstroke_dd2_btrauma2	Primary or Secondary Stroke and Brain Hemorrhage	Ulcer, Skin Disorders, Cellulitis	527	(5.35)	(0.45)	52	61.38	1.53
i_bstroke_dd2_stasis2	Primary or Secondary Stroke and Brain Hemorrhage	Stasis Ulcer healing status = 2	236	(27.35)	(1.59)	20	(40.39)	(0.63)
i_bstroke_dd2_stasis3	Primary or Secondary Stroke and Brain Hemorrhage	Stasis Ulcer healing status = 3	124	(28.30)	(1.20)	7	(431.94)	(4.11)
i_bstroke_dd2_ucontnew	Primary or Secondary Stroke and Brain Hemorrhage	Urinary Incontinence	9,123	(15.42)	(3.75)	1,265	2.48	0.21
i_bstroke_dd2_ther_ip	Primary or Secondary Stroke and Brain Hemorrhage	IV or Parenteral Therapy	188	0.83	0.04	16	(106.99)	(1.52)
i_bstroke_dd2_bheart_a	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Heart A	45	(16.68)	(0.42)	3	(587.81)	(1.85)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bstroke_dd2_bheart_b	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Heart B	1,373	2.97	0.39	160	193.52	8.22
i_bstroke_dd2_bheart_c	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Heart C	2,337	(6.70)	(1.12)	225	112.08	5.80
i_bstroke_dd2_bhypertension_a	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Hypertension A	7,143	16.59	3.81	776	72.60	5.71
i_bstroke_dd2_bhypertension_b	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Hypertension B	769	1.72	0.17	54	14.56	0.35
i_bstroke_dd2_bhypertension_c	Primary or Secondary Stroke and Brain Hemorrhage	Primary or Secondary Hypertension C	100	26.12	0.97	9	(119.07)	(0.84)
i_bstroke_dd2_bortho1_dd2	Primary or Secondary Stroke and Brain Hemorrhage	All Ortho Except Gait and Leg	2,896	2.59	0.47	295	(72.61)	(4.21)
i_bstroke_dd2_bleg_gait	Primary or Secondary Stroke and Brain Hemorrhage	All Ortho Leg-Related or Gait Disorders	2,363	26.17	4.29	955	34.98	2.89
i_bstroke_dd2_dress13	Primary or Secondary Stroke and Brain Hemorrhage	Dressing 1 to 3	15,460	23.30	3.14	2,317	3.78	0.16
i_bstroke_dd2_bth_ge2	Primary or Secondary Stroke and Brain Hemorrhage	Bathing >= 2	16,177	(18.37)	(2.22)	2,378	71.31	2.59
i_bstroke_dd2_toi_ge2	Primary or Secondary Stroke and Brain Hemorrhage	Toileting >= 2	7,988	(0.56)	(0.08)	1,007	(44.36)	(2.69)
i_bstroke_dd2_tfr_ge1	Primary or Secondary Stroke and Brain Hemorrhage	Transferring = 1	8,568	11.20	1.32	1,308	110.70	4.38
i_bstroke_dd2_tfr_ge2	Primary or Secondary Stroke and Brain Hemorrhage	Transferring >= 2	7,780	15.56	1.41	1,053	81.40	2.71
i_bstroke_dd2_loco_ge1	Primary or Secondary Stroke and Brain Hemorrhage	Locomotion = 1 or 2	10,367	(5.59)	(0.37)	1,711	4.65	0.08
i_bstroke_dd2_loco_ge3	Primary or Secondary Stroke and Brain Hemorrhage	Locomotion >= 3	7,065	1.35	0.08	785	66.79	1.08
pheart_a	Primary Heart A		108	56.41	1.20	2	(275.58)	(0.63)
sheart_a	Secondary Heart A		726	25.60	0.58	30	(760.11)	(2.11)
i_bheart_a_bortho1_dd2	Primary or Secondary Heart A	All Ortho Except Gait and Leg	238	17.78	0.84	7	97.10	0.69
i_bheart_a_bleg_gait	Primary or Secondary Heart A	All Ortho Leg-Related or Gait Disorders	88	13.84	0.47	21	(287.84)	(1.51)
i_bheart_a_bpsych1	Primary or Secondary Heart A	Psychiatric Affective, Depressive, Other Psychoses	53	55.76	1.52	1	559.83	1.16
i_bheart_a_bpsych2_dd2	Primary or Secondary Heart A	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	40	(33.91)	(0.81)	1	(250.88)	(0.78)



**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bheart_a_btrauma_l2	Primary or Secondary Heart A	Other Trauma (Post-Operative Wounds)	8	55.65	0.61	-	-	.
i_bheart_a_btrauma2	Primary or Secondary Heart A	Ulcer, Skin Disorders, Cellulitis	30	(7.71)	(0.14)	-	-	.
i_bheart_a_bdm	Primary or Secondary Heart A	Diabetes (250.xx) and DM Manifestation Codes	313	9.60	0.49	10	(174.29)	(0.86)
i_bheart_a_bdmi_0	Primary or Secondary Heart A	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	27	(58.76)	(1.16)	2	342.89	0.76
i_bheart_a_bdmi_1	Primary or Secondary Heart A	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	35	22.47	0.53	3	274.11	0.99
i_bheart_a_stasis2	Primary or Secondary Heart A	Stasis Ulcer healing status = 2	9	(37.19)	(0.39)	-	-	.
i_bheart_a_stasis3	Primary or Secondary Heart A	Stasis Ulcer healing status = 3	4	74.70	0.58	-	-	.
i_bheart_a_ther_ip	Primary or Secondary Heart A	IV or Parenteral Therapy	7	(213.76)	(2.20)	-	-	.
i_bheart_a_dress13	Primary or Secondary Heart A	Dressing 1 to 3	654	5.29	0.20	27	(152.88)	(0.78)
i_bheart_a_bth_ge2	Primary or Secondary Heart A	Bathing >= 2	657	(4.94)	(0.19)	30	127.84	0.54
i_bheart_a_toi_ge2	Primary or Secondary Heart A	Toileting >= 2	141	(16.01)	(0.51)	7	158.96	0.78
i_bheart_a_tfr_ge1	Primary or Secondary Heart A	Transferring = 1	602	(3.86)	(0.13)	25	322.98	1.22
i_bheart_a_tfr_ge2	Primary or Secondary Heart A	Transferring >= 2	102	0.51	0.01	4	910.38	2.50
i_bheart_a_loco_ge1	Primary or Secondary Heart A	Locomotion = 1 or 2	701	4.66	0.10	26	459.33	1.57
i_bheart_a_loco_ge3	Primary or Secondary Heart A	Locomotion >= 3	92	(22.69)	(0.38)	6	-	.
i_bheart_a_dysp234	Primary or Secondary Heart A	Dyspnea	656	(25.18)	(1.10)	25	221.21	1.03
pheart_b	Primary Heart B		2,211	14.47	1.41	101	247.33	3.14
sheart_b	Secondary Heart B		16,116	28.90	3.14	1,022	262.97	3.44
i_bheart_b_bortho1_dd2	Primary or Secondary Heart B	All Ortho Except Gait and Leg	4,139	(12.32)	(2.54)	210	(90.17)	(4.26)
i_bheart_b_bleg_gait	Primary or Secondary Heart B	All Ortho Leg-Related or Gait Disorders	1,586	29.98	4.30	407	89.06	5.13
i_bheart_b_bpsych1	Primary or Secondary Heart B	Psychiatric Affective, Depressive, Other Psychoses	1,037	1.29	0.15	55	94.42	2.52
i_bheart_b_bpsych2_dd2	Primary or Secondary Heart B	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	1,411	(0.06)	(0.01)	77	12.48	0.39
i_bheart_b_btrauma_l2	Primary or Secondary Heart B	Other Trauma (Post-Operative Wounds)	570	(31.48)	(2.79)	37	40.97	0.89
i_bheart_b_btrauma2	Primary or Secondary Heart B	Ulcer, Skin Disorders, Cellulitis	858	(30.22)	(3.06)	34	(199.01)	(4.12)
i_bheart_b_bdm	Primary or Secondary Heart B	Diabetes (250.xx) and DM Manifestation Codes	7,574	4.51	1.11	395	(19.97)	(0.99)
i_bheart_b_bdmi_0	Primary or Secondary Heart B	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	767	0.19	0.02	95	(141.79)	(4.30)
i_bheart_b_bdmi_1	Primary or Secondary Heart B	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	784	(3.33)	(0.34)	84	4.53	0.13
i_bheart_b_stasis2	Primary or Secondary Heart B	Stasis Ulcer healing status = 2	301	(5.59)	(0.35)	13	(152.83)	(2.00)
i_bheart_b_stasis3	Primary or Secondary Heart B	Stasis Ulcer healing status = 3	242	(35.78)	(2.05)	7	(54.82)	(0.54)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bheart_b_ther_ip	Primary or Secondary Heart B	IV or Parenteral Therapy	278	(19.38)	(1.21)	13	(81.01)	(1.06)
i_bheart_b_dress13	Primary or Secondary Heart B	Dressing 1 to 3	13,277	15.14	2.75	963	163.60	6.22
i_bheart_b_bth_ge2	Primary or Secondary Heart B	Bathing >= 2	14,339	(7.26)	(1.25)	1,011	(118.47)	(3.97)
i_bheart_b_toi_ge2	Primary or Secondary Heart B	Toileting >= 2	2,995	(19.80)	(2.72)	269	(34.16)	(1.36)
i_bheart_b_tfr_ge1	Primary or Secondary Heart B	Transferring = 1	12,506	5.93	0.97	761	153.49	5.08
i_bheart_b_tfr_ge2	Primary or Secondary Heart B	Transferring >= 2	2,395	23.68	2.30	259	(37.50)	(0.94)
i_bheart_b_loco_ge1	Primary or Secondary Heart B	Locomotion = 1 or 2	15,111	0.93	0.10	937	(228.48)	(2.97)
i_bheart_b_loco_ge3	Primary or Secondary Heart B	Locomotion >= 3	2,109	(13.04)	(1.05)	173	(154.85)	(1.90)
i_bheart_b_dysp234	Primary or Secondary Heart B	Dyspnea	13,323	(16.29)	(3.51)	725	(131.69)	(7.60)
pheart_c	Primary Heart C		11,609	(3.68)	(0.50)	428	(64.90)	(1.06)
sheart_c	Secondary Heart C		31,277	6.05	0.85	2,103	(105.57)	(1.73)
i_bheart_c_bortho1_dd2	Primary or Secondary Heart C	All Ortho Except Gait and Leg	8,476	1.01	0.28	416	3.58	0.24
i_bheart_c_bleg_gait	Primary or Secondary Heart C	All Ortho Leg-Related or Gait Disorders	3,654	9.74	2.00	896	5.37	0.45
i_bheart_c_bpsych1	Primary or Secondary Heart C	Psychiatric Affective, Depressive, Other Psychoses	1,849	(4.99)	(0.76)	77	(52.70)	(1.65)
i_bheart_c_bpsych2_dd2	Primary or Secondary Heart C	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	2,819	(3.06)	(0.56)	95	(9.82)	(0.35)
i_bheart_c_btrauma_l2	Primary or Secondary Heart C	Other Trauma (Post-Operative Wounds)	1,215	5.20	0.64	84	11.88	0.37
i_bheart_c_btrauma2	Primary or Secondary Heart C	Ulcer, Skin Disorders, Cellulitis	2,153	(16.03)	(2.40)	114	(85.28)	(2.89)
i_bheart_c_bdm	Primary or Secondary Heart C	Diabetes (250.xx) and DM Manifestation Codes	17,533	(4.85)	(1.68)	919	11.30	0.81
i_bheart_c_bdmi_0	Primary or Secondary Heart C	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	1,438	10.04	1.26	161	(20.13)	(0.78)
i_bheart_c_bdmi_1	Primary or Secondary Heart C	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	1,825	20.67	2.82	246	(33.80)	(1.52)
i_bheart_c_stasis2	Primary or Secondary Heart C	Stasis Ulcer healing status = 2	939	2.57	0.27	56	16.92	0.40
i_bheart_c_stasis3	Primary or Secondary Heart C	Stasis Ulcer healing status = 3	631	30.10	2.61	27	(1.56)	(0.03)
i_bheart_c_ther_ip	Primary or Secondary Heart C	IV or Parenteral Therapy	953	7.02	0.74	42	(226.01)	(4.91)
i_bheart_c_dress13	Primary or Secondary Heart C	Dressing 1 to 3	31,824	9.09	2.30	2,249	39.31	1.95
i_bheart_c_bth_ge2	Primary or Secondary Heart C	Bathing >= 2	35,143	7.82	1.82	2,345	(59.67)	(2.51)
i_bheart_c_toi_ge2	Primary or Secondary Heart C	Toileting >= 2	8,119	(5.49)	(1.12)	680	(20.51)	(1.23)
i_bheart_c_tfr_ge1	Primary or Secondary Heart C	Transferring = 1	29,456	(5.06)	(1.12)	1,698	(3.82)	(0.17)
i_bheart_c_tfr_ge2	Primary or Secondary Heart C	Transferring >= 2	6,539	(11.13)	(1.55)	636	1.82	0.06
i_bheart_c_loco_ge1	Primary or Secondary Heart C	Locomotion = 1 or 2	35,235	2.29	0.31	2,078	196.37	3.13
i_bheart_c_loco_ge3	Primary or Secondary Heart C	Locomotion >= 3	5,721	0.29	0.03	431	156.71	2.40
i_bheart_c_dysp234	Primary or Secondary Heart C	Dyspnea	33,722	2.23	0.65	1,914	(36.63)	(2.79)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
phypertension_a	Primary Hypertension A		10,497	(2.96)	(0.51)	250	(62.67)	(1.48)
shypertension_a	Secondary Hypertension A		63,103	18.92	3.48	4,159	(77.51)	(1.98)
i_bhypertension_a_bortho1_dd2	Primary or Secondary Hypertension A	All Ortho Except Gait and Leg	20,423	(7.58)	(2.56)	1,129	(24.91)	(2.23)
i_bhypertension_a_bleg_gait	Primary or Secondary Hypertension A	All Ortho Leg-Related or Gait Disorders	8,101	21.41	5.61	1,677	38.13	3.98
i_bhypertension_a_bpsych1	Primary or Secondary Hypertension A	Psychiatric Affective, Depressive, Other Psychoses	5,616	9.07	1.94	241	(28.79)	(1.38)
i_bhypertension_a_bpsych2_dd2	Primary or Secondary Hypertension A	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	7,010	(5.15)	(1.26)	335	(18.37)	(1.05)
i_bhypertension_a_btrauma_l2	Primary or Secondary Hypertension A	Other Trauma (Post-Operative Wounds)	2,354	(12.31)	(1.95)	93	0.63	0.02
i_bhypertension_a_btrauma2	Primary or Secondary Hypertension A	Ulcer, Skin Disorders, Cellulitis	3,365	(9.29)	(1.64)	157	57.77	2.24
i_bhypertension_a_bdm	Primary or Secondary Hypertension A	Diabetes (250.xx) and DM Manifestation Codes	30,293	(13.76)	(5.48)	1,535	(34.91)	(3.02)
i_bhypertension_a_bdmi_0	Primary or Secondary Hypertension A	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	2,808	23.21	3.38	344	(52.53)	(2.58)
i_bhypertension_a_bdmi_1	Primary or Secondary Hypertension A	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	2,326	22.77	3.32	282	19.70	0.97
i_bhypertension_a_stasis2	Primary or Secondary Hypertension A	Stasis Ulcer healing status = 2	1,371	29.35	3.51	50	(111.90)	(2.64)
i_bhypertension_a_stasis3	Primary or Secondary Hypertension A	Stasis Ulcer healing status = 3	921	17.09	1.70	33	116.38	2.19
i_bhypertension_a_ther_ip	Primary or Secondary Hypertension A	IV or Parenteral Therapy	794	(8.22)	(0.82)	35	(220.84)	(4.44)
i_bhypertension_a_dress13	Primary or Secondary Hypertension A	Dressing 1 to 3	53,245	10.90	3.16	3,779	59.44	3.90
i_bhypertension_a_bth_ge2	Primary or Secondary Hypertension A	Bathing >= 2	56,902	1.92	0.52	3,943	(10.11)	(0.57)
i_bhypertension_a_toi_ge2	Primary or Secondary Hypertension A	Toileting >= 2	14,108	2.12	0.49	1,184	(77.08)	(5.63)
i_bhypertension_a_tfr_ge1	Primary or Secondary Hypertension A	Transferring = 1	49,272	(6.34)	(1.62)	2,890	6.35	0.36
i_bhypertension_a_tfr_ge2	Primary or Secondary Hypertension A	Transferring >= 2	11,532	(17.27)	(2.78)	1,133	(55.66)	(2.45)
i_bhypertension_a_loco_ge1	Primary or Secondary Hypertension A	Locomotion = 1 or 2	58,769	(3.55)	(0.60)	3,511	140.00	3.47
i_bhypertension_a_loco_ge3	Primary or Secondary Hypertension A	Locomotion >= 3	10,287	(1.58)	(0.21)	828	191.97	4.47
i_bhypertension_a_dysp234	Primary or Secondary Hypertension A	Dyspnea	49,852	(13.73)	(5.17)	2,789	(35.11)	(3.63)
phypertension_b	Primary Hypertension B		2,070	13.80	0.84	27	366.64	1.74
shypertension_b	Secondary Hypertension B		6,940	32.39	2.02	332	338.64	1.67
i_bhypertension_b_bortho1_dd2	Primary or Secondary Hypertension B	All Ortho Except Gait and Leg	3,158	(1.17)	(0.19)	105	(32.17)	(0.99)
i_bhypertension_b_bleg_gait	Primary or Secondary Hypertension B	All Ortho Leg-Related or Gait Disorders	995	21.83	2.40	154	57.61	1.92
i_bhypertension_b_bpsych1	Primary or Secondary Hypertension B	Psychiatric Affective, Depressive, Other Psychoses	471	(27.14)	(2.17)	18	(72.35)	(1.13)
i_bhypertension_b_bpsych2_dd2	Primary or Secondary Hypertension B	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	846	25.49	2.64	31	47.87	0.95
i_bhypertension_b_btrauma_l2	Primary or Secondary Hypertension B	Other Trauma (Post-Operative Wounds)	186	(10.90)	(0.57)	5	247.24	1.99

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bhypertension_b_btrauma2	Primary or Secondary Hypertension B	Ulcer, Skin Disorders, Cellulitis	319	(11.00)	(0.65)	12	(29.65)	(0.37)
i_bhypertension_b_bdm	Primary or Secondary Hypertension B	Diabetes (250.xx) and DM Manifestation Codes	4,083	0.75	0.14	139	63.93	2.08
i_bhypertension_b_bdmi_0	Primary or Secondary Hypertension B	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	299	8.84	0.58	17	12.34	0.18
i_bhypertension_b_bdmi_1	Primary or Secondary Hypertension B	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	257	12.73	0.80	27	(124.74)	(2.38)
i_bhypertension_b_stasis2	Primary or Secondary Hypertension B	Stasis Ulcer healing status = 2	109	(24.29)	(0.93)	4	(40.87)	(0.31)
i_bhypertension_b_stasis3	Primary or Secondary Hypertension B	Stasis Ulcer healing status = 3	93	(52.25)	(1.80)	2	775.87	4.06
i_bhypertension_b_ther_ip	Primary or Secondary Hypertension B	IV or Parenteral Therapy	85	(25.61)	(0.91)	-	-	-
i_bhypertension_b_dress13	Primary or Secondary Hypertension B	Dressing 1 to 3	6,918	2.80	0.34	318	21.44	0.42
i_bhypertension_b_bth_ge2	Primary or Secondary Hypertension B	Bathing >= 2	7,166	0.52	0.06	332	6.84	0.12
i_bhypertension_b_toi_ge2	Primary or Secondary Hypertension B	Toileting >= 2	1,807	3.99	0.43	97	50.23	1.15
i_bhypertension_b_tfr_ge1	Primary or Secondary Hypertension B	Transferring = 1	6,512	(11.41)	(1.20)	256	(59.36)	(0.75)
i_bhypertension_b_tfr_ge2	Primary or Secondary Hypertension B	Transferring >= 2	1,303	(23.16)	(1.55)	89	(110.25)	(1.22)
i_bhypertension_b_loco_ge1	Primary or Secondary Hypertension B	Locomotion = 1 or 2	7,639	(16.87)	(1.01)	294	(271.18)	(1.29)
i_bhypertension_b_loco_ge3	Primary or Secondary Hypertension B	Locomotion >= 3	1,055	(17.76)	(0.87)	63	(389.19)	(1.82)
i_bhypertension_b_dysp234	Primary or Secondary Hypertension B	Dyspnea	7,471	5.33	0.70	283	(15.81)	(0.45)
phypertension_c	Primary Hypertension C		306	(6.79)	(0.20)	6	1,217.29	2.98
shypertension_c	Secondary Hypertension C		1,122	2.92	0.09	60	1,115.10	2.90
i_bhypertension_c_bortho1_dd2	Primary or Secondary Hypertension C	All Ortho Except Gait and Leg	246	6.29	0.34	9	81.41	0.64
i_bhypertension_c_bleg_gait	Primary or Secondary Hypertension C	All Ortho Leg-Related or Gait Disorders	152	25.35	1.14	29	(48.02)	(0.57)
i_bhypertension_c_bpsych1	Primary or Secondary Hypertension C	Psychiatric Affective, Depressive, Other Psychoses	45	(21.70)	(0.56)	6	(275.05)	(1.62)
i_bhypertension_c_bpsych2_dd2	Primary or Secondary Hypertension C	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	79	(0.50)	(0.02)	5	(69.01)	(0.47)
i_bhypertension_c_btrauma_l2	Primary or Secondary Hypertension C	Other Trauma (Post-Operative Wounds)	50	74.65	2.00	2	(663.64)	(2.87)
i_bhypertension_c_btrauma2	Primary or Secondary Hypertension C	Ulcer, Skin Disorders, Cellulitis	104	(56.90)	(2.04)	6	212.19	1.20
i_bhypertension_c_bdm	Primary or Secondary Hypertension C	Diabetes (250.xx) and DM Manifestation Codes	870	(23.86)	(1.88)	33	(156.71)	(1.76)
i_bhypertension_c_bdmi_0	Primary or Secondary Hypertension C	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	67	(8.97)	(0.30)	5	114.68	0.76
i_bhypertension_c_bdmi_1	Primary or Secondary Hypertension C	Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	105	29.88	1.18	7	(116.19)	(0.85)
i_bhypertension_c_stasis2	Primary or Secondary Hypertension C	Stasis Ulcer healing status = 2	21	3.96	0.07	4	43.19	0.23
i_bhypertension_c_stasis3	Primary or Secondary Hypertension C	Stasis Ulcer healing status = 3	14	17.20	0.24	3	371.17	1.77
i_bhypertension_c_ther_ip	Primary or Secondary Hypertension C	IV or Parenteral Therapy	25	47.89	0.92	1	(313.81)	(0.95)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bhypertension_c_dress13	Primary or Secondary Hypertension C	Dressing 1 to 3	1,064	16.77	0.89	61	(209.78)	(1.45)
i_bhypertension_c_bth_ge2	Primary or Secondary Hypertension C	Bathing >= 2	1,126	4.18	0.21	63	156.92	0.74
i_bhypertension_c_toi_ge2	Primary or Secondary Hypertension C	Toileting >= 2	274	(22.96)	(0.98)	22	18.99	0.17
i_bhypertension_c_tfr_ge1	Primary or Secondary Hypertension C	Transferring = 1	965	(13.14)	(0.58)	38	(718.87)	(3.47)
i_bhypertension_c_tfr_ge2	Primary or Secondary Hypertension C	Transferring >= 2	245	(15.44)	(0.45)	25	(673.60)	(3.11)
i_bhypertension_c_loco_ge1	Primary or Secondary Hypertension C	Locomotion = 1 or 2	1,126	10.04	0.30	47	(224.31)	(0.63)
i_bhypertension_c_loco_ge3	Primary or Secondary Hypertension C	Locomotion >= 3	225	16.20	0.39	18	(96.59)	(0.26)
i_bhypertension_c_dysp234	Primary or Secondary Hypertension C	Dyspnea	1,001	(6.13)	(0.40)	40	(183.24)	(2.07)
i_bhyper_a_bheart_a_or_b	Primary or Secondary Hypertension A	Primary or Secondary Heart A or B	8,929	(5.73)	(1.44)	474	50.60	3.05
i_bhyper_b_bheart_c	Primary or Secondary Hypertension B	Primary Heart C	2,537	(19.23)	(3.05)	56	(55.38)	(1.41)
injmeduse_0	Injectable Drug Use Known to Be No		28,247	14.16	5.87	5,610	22.61	3.78
injmeduse_1	Injectable Drug Use Known to Be Yes		9,609	18.22	3.75	1,634	47.07	4.13
pdm_all	Primary Diabetes (250.xx) and DM Manifestation Codes		28,045	13.98	4.87	973	74.61	5.09
sdm_all	Secondary Diabetes (250.xx) and DM Manifestation Codes		46,292	18.62	6.98	3,799	34.95	2.94
i_bdm_btrauma_l2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Other Trauma (Post-Operative Wounds)	3,373	(8.79)	(1.39)	183	(0.83)	(0.03)
i_bdm_btrauma2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Ulcer, Skin Disorders, Cellulitis	7,115	(6.48)	(1.43)	346	(25.59)	(1.16)
l_bdm_multpulc	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Multiple Pressure Ulcers	1,100	(21.38)	(1.90)	44	166.65	2.81
l_bdm_press12	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Pressure Ulcers 1 or 2	4,899	(1.74)	(0.36)	427	(47.37)	(2.36)
l_bdm_press34	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Pressure Ulcers 3 or 4	3,370	(11.50)	(1.70)	189	11.68	0.38
l_bdm_surg2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Surgical Wound healing status = 2	2,873	(0.53)	(0.08)	277	(70.70)	(2.70)
l_bdm_surg3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Surgical Wound healing status = 3	1,339	(2.41)	(0.24)	73	125.88	2.52
i_bdm_bpsych1	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Psychiatric Affective, Depressive, Other Psychoses	3,953	(3.24)	(0.65)	179	(53.76)	(1.99)
i_bdm_bpsych2_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	4,615	5.40	1.18	223	(22.29)	(0.95)
i_bdm_new_bpulm	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Pulmonary	8,649	4.10	1.12	445	(52.21)	(2.83)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bdm_ther_ip	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	IV or Parenteral Therapy	1,449	(24.83)	(2.83)	73	10.53	0.26
i_bdm_bortho1_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	All Ortho Except Gait and Leg	14,675	(5.39)	(1.88)	871	1.90	0.15
i_bdm_bleg_gait	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	All Ortho Leg-Related or Gait Disorders	7,187	7.08	1.77	1,791	19.54	1.78
i_bdm_loco_ge3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Locomotion >= 3	14,470	9.69	2.98	1,139	17.92	1.34
i_bdm_new_blind	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes	Primary or Secondary Blindness or Low Vision	1,150	12.30	1.23	45	422.46	7.72
pdm_i_0_all	Primary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No		1,904	(2.38)	(0.26)	159	109.36	3.66
sdm_i_0_all	Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No		4,468	(11.96)	(1.49)	762	50.51	2.23
i_bdm_i_0_btrauma_l2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Other Trauma (Post-Operative Wounds)	331	21.17	1.33	24	(49.98)	(0.83)
i_bdm_i_0_btrauma2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Ulcer, Skin Disorders, Cellulitis	653	43.79	4.05	52	(17.90)	(0.43)
i_bdm_i_0_multulc	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Multiple Pressure Ulcers	78	(19.94)	(0.57)	4	(67.72)	(0.44)
i_bdm_i_0_press12	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Pressure Ulcers 1 or 2	538	(28.15)	(2.30)	88	31.24	0.90
i_bdm_i_0_press34	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Pressure Ulcers 3 or 4	234	(9.27)	(0.44)	27	(79.53)	(1.31)
i_bdm_i_0_surg2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Surgical Wound healing status = 2	441	4.79	0.35	64	(5.26)	(0.13)
i_bdm_i_0_surg3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Surgical Wound healing status = 3	182	(13.68)	(0.66)	17	(36.58)	(0.49)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bdmi_0_bpsych1	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Psychiatric Affective, Depressive, Other Psychoses	321	(8.18)	(0.55)	38	(16.59)	(0.33)
i_bdmi_0_bpsych2_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	434	15.72	1.20	55	123.45	2.99
i_bdmi_0_new_bpulm	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Pulmonary	852	14.74	1.50	100	23.93	0.74
i_bdmi_0_ther_ip	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	IV or Parenteral Therapy	154	61.94	2.80	8	36.59	0.35
i_bdmi_0_bortho1_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	All Ortho Except Gait and Leg	1,063	8.34	0.96	148	17.97	0.69
i_bdmi_0_bleg_gait	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	All Ortho Leg-Related or Gait Disorders	1,001	3.79	0.41	364	(67.96)	(3.34)
i_bdmi_0_loco_ge3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Locomotion >= 3	1,236	(7.73)	(0.87)	232	(12.51)	(0.53)
i_bdmi_0_new_blind	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be No	Primary or Secondary Blindness or Low Vision	50	(7.58)	(0.22)	3	(1,041.27)	(6.11)
pdmi_1_all	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes		2,370	21.79	2.42	241	21.91	0.81
sdmi_1_all	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes		4,324	(3.37)	(0.40)	783	60.38	2.66
i_bdmi_1_btrauma_l2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Other Trauma (Post-Operative Wounds)	438	35.19	2.46	46	6.29	0.13
i_bdmi_1_btrauma2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Ulcer, Skin Disorders, Cellulitis	969	2.11	0.23	87	(36.92)	(1.11)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bdmi_1_multpulc	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Multiple Pressure Ulcers	128	15.90	0.57	6	205.35	1.67
i_bdmi_1_press12	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Pressure Ulcers 1 or 2	592	(0.16)	(0.01)	111	4.39	0.14
i_bdmi_1_press34	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Pressure Ulcers 3 or 4	359	26.49	1.53	38	(136.10)	(2.69)
i_bdmi_1_surg2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Surgical Wound healing status = 2	602	22.04	1.81	94	32.13	0.91
i_bdmi_1_surg3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Surgical Wound healing status = 3	287	(2.59)	(0.15)	22	(22.56)	(0.32)
i_bdmi_1_bpsych1	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Psychiatric Affective, Depressive, Other Psychoses	332	(9.02)	(0.63)	40	(105.64)	(2.17)
i_bdmi_1_bpsych2_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Psychiatric/Degenerative, Other Organic Psychoses (Updated)	285	5.50	0.36	28	(33.57)	(0.65)
i_bdmi_1_new_bpulm	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Pulmonary	908	(1.08)	(0.11)	98	117.88	3.73
i_bdmi_1_ther_ip	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	IV or Parenteral Therapy	270	43.13	2.49	15	(32.07)	(0.42)
i_bdmi_1_bortho1_dd2	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	All Ortho Except Gait and Leg	877	(1.45)	(0.16)	135	(72.88)	(2.84)
i_bdmi_1_bleg_gait	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	All Ortho Leg-Related or Gait Disorders	994	(3.99)	(0.43)	400	(43.95)	(2.32)
i_bdmi_1_loco_ge3	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Locomotion >= 3	1,568	(20.25)	(2.55)	289	(7.73)	(0.36)



**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bdmi_1_new_blind	Primary or Secondary Diabetes (250.xx) and DM Manifestation Codes and Injectable Drug Use Known to Be Yes	Primary or Secondary Blindness or Low Vision	119	(48.68)	(2.19)	8	799.81	7.77
new_ppulm	Primary Pulmonary (Including COPD)		7,385	11.89	1.43	221	337.36	5.18
new_spulm	Secondary Pulmonary (Including COPD)		19,921	16.59	2.08	1,433	214.72	3.35
i_new_bpulm_bheart_a	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Heart A	145	55.62	2.27	3	-	.
i_new_bpulm_bheart_b	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Heart B	3,007	(7.33)	(1.33)	146	(84.83)	(3.41)
i_new_bpulm_bheart_c	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Heart C	9,153	(1.50)	(0.40)	476	(20.79)	(1.33)
i_new_bpulm_bhypertension_a	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Hypertension A	8,928	(6.06)	(1.64)	432	(21.87)	(1.39)
i_new_bpulm_bhypertension_b	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Hypertension B	1,456	(5.30)	(0.69)	35	(9.72)	(0.20)
i_new_bpulm_bhypertension_c	Primary or Secondary Pulmonary (Including COPD)	Primary or Secondary Hypertension C	147	(13.01)	(0.57)	3	64.48	0.37
i_new_bpulm_bortho1_dd2	Primary or Secondary Pulmonary (Including COPD)	All Ortho Except Gait and Leg	6,080	(2.08)	(0.50)	320	(16.99)	(0.98)
i_new_bpulm_bleg_gait	Primary or Secondary Pulmonary (Including COPD)	All Ortho Leg-Related or Gait Disorders	2,406	0.53	0.09	606	24.52	1.69
i_new_bpulm_btrauma_l2	Primary or Secondary Pulmonary (Including COPD)	Other Trauma (Post-Operative Wounds)	822	4.47	0.47	42	(35.35)	(0.83)
i_new_bpulm_btrauma2	Primary or Secondary Pulmonary (Including COPD)	Ulcer, Skin Disorders, Cellulitis	921	(0.93)	(0.10)	43	43.08	1.02
i_new_bpulm_loco_ge1	Primary or Secondary Pulmonary (Including COPD)	Locomotion = 1 or 2	22,325	1.86	0.26	1,403	(135.07)	(2.17)
i_new_bpulm_loco_ge3	Primary or Secondary Pulmonary (Including COPD)	Locomotion >= 3	3,280	(12.89)	(1.56)	231	(128.66)	(2.00)
i_new_bpulm_dysp234	Primary or Secondary Pulmonary (Including COPD)	Dyspnea	23,978	(4.78)	(0.97)	1,424	(36.26)	(1.93)
ptrauma_l2	Primary Other Trauma (Post-Operative Wounds)		6,406	70.10	10.93	226	179.54	4.63
strauma_l2	Secondary Other Trauma (Post-Operative Wounds)		3,263	30.60	4.00	336	58.07	1.43
i_btrauma_l2_bortho1_dd2	Primary or Secondary Other Trauma (Post-Operative Wounds)	All Ortho Except Gait and Leg	1,165	11.05	1.35	81	(7.41)	(0.23)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_btrauma_i2_bleg_gait	Primary or Secondary Other Trauma (Post-Operative Wounds)	All Ortho Leg-Related or Gait Disorders	1,017	36.50	4.15	217	66.53	2.78
i_btrauma_i2_ther_ip	Primary or Secondary Other Trauma (Post-Operative Wounds)	IV or Parenteral Therapy	369	11.01	0.77	15	64.14	0.90
i_btrauma_i2_ostomy12	Primary or Secondary Other Trauma (Post-Operative Wounds)	Ostomy	568	(37.78)	(3.16)	24	(16.04)	(0.27)
i_btrauma_i2_ucontnew	Primary or Secondary Other Trauma (Post-Operative Wounds)	Urinary Incontinence	3,402	9.18	1.58	243	(10.77)	(0.46)
i_btrauma_i2_multpulg	Primary or Secondary Other Trauma (Post-Operative Wounds)	Multiple Pressure Ulcers	257	(44.06)	(2.58)	11	(189.32)	(2.12)
i_btrauma_i2_dress13	Primary or Secondary Other Trauma (Post-Operative Wounds)	Dressing 1 to 3	6,685	6.38	1.06	496	(34.33)	(0.96)
i_btrauma_i2_new_blind	Primary or Secondary Other Trauma (Post-Operative Wounds)	Primary or Secondary Blindness or Low Vision	53	(43.12)	(1.22)	-	-	.
new_ptrauma2	Primary Ulcer, Skin Disorders, Cellulitis		5,512	60.89	10.20	185	147.61	4.04
new_strauma2	Secondary Ulcer, Skin Disorders, Cellulitis		7,674	62.77	10.09	506	106.61	3.03
i_btrauma2_bortho1_dd2	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	All Ortho Except Gait and Leg	1,314	(6.72)	(0.87)	75	21.08	0.64
i_btrauma2_bleg_gait	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	All Ortho Leg-Related or Gait Disorders	1,109	11.03	1.31	213	72.79	3.15
i_btrauma2_ther_ip	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	IV or Parenteral Therapy	389	34.40	2.44	17	(231.80)	(3.31)
i_btrauma2_ostomy12	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Ostomy	356	33.57	2.31	13	(56.30)	(0.76)
i_btrauma2_ucontnew	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Urinary Incontinence	4,559	15.48	3.10	294	5.12	0.24
i_btrauma2_multpulg	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Multiple Pressure Ulcers	604	(32.61)	(2.71)	25	17.24	0.28
i_btrauma2_dress13	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Dressing 1 to 3	9,194	(14.53)	(2.79)	605	6.43	0.21
i_btrauma2_new_blind	Primary or Secondary Ulcer, Skin Disorders, Cellulitis	Primary or Secondary Blindness or Low Vision	104	(7.05)	(0.27)	2	(811.32)	(4.26)
portho1_dd2	Primary All Ortho Except Gait and Leg		14,590	(11.31)	(1.45)	1,194	4.56	0.12
sortho1_dd2	Secondary All Ortho Except Gait and Leg		30,866	4.21	0.55	2,321	25.30	0.65
pleg_all	Primary All Ortho Leg-Related Disorders		1,181	(42.75)	(1.50)	299	(224.48)	(1.23)
sleg_all	Secondary All Ortho Leg-Related Disorders		2,782	(40.99)	(1.47)	455	(110.98)	(0.61)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
pgait	Primary Gait Disorders		7,786	(71.52)	(4.67)	4,487	(51.21)	(1.05)
sgait	Secondary Gait Disorders		13,405	0.49	0.03	2,621	34.38	0.70
i_bortho1_dd2_dysp234	Primary or Secondary All Ortho Except Gait and Leg	Dyspnea	34,661	(6.50)	(1.94)	2,179	6.11	0.56
i_bortho1_dd2_press1234	Primary or Secondary All Ortho Except Gait and Leg	Pressure Ulcers 1 to 4	2,550	7.48	1.22	208	13.40	0.65
i_bortho1_dd2_multpulc	Primary or Secondary All Ortho Except Gait and Leg	Multiple Pressure Ulcers	310	(35.59)	(2.20)	9	395.45	4.27
i_bortho1_dd2_ther_ip	Primary or Secondary All Ortho Except Gait and Leg	IV or Parenteral Therapy	592	(11.36)	(1.00)	43	(53.23)	(1.19)
i_bortho1_dd2_ucontnew	Primary or Secondary All Ortho Except Gait and Leg	Urinary Incontinence	27,422	0.65	0.22	1,912	(5.85)	(0.56)
i_bortho1_dd2_dress13	Primary or Secondary All Ortho Except Gait and Leg	Dressing 1 to 3	34,827	7.54	1.91	2,946	(33.03)	(2.10)
i_bortho1_dd2_bth_ge2	Primary or Secondary All Ortho Except Gait and Leg	Bathing >= 2	37,150	8.34	1.98	3,088	39.56	2.21
i_bortho1_dd2_toi_ge2	Primary or Secondary All Ortho Except Gait and Leg	Toileting >= 2	9,123	9.49	2.05	769	44.82	2.89
i_bortho1_dd2_tfr_ge1	Primary or Secondary All Ortho Except Gait and Leg	Transferring = 1	33,043	(2.77)	(0.59)	2,489	42.75	2.15
i_bortho1_dd2_tfr_ge2	Primary or Secondary All Ortho Except Gait and Leg	Transferring >= 2	6,889	(28.12)	(3.95)	718	25.34	1.00
i_bortho1_dd2_loco_ge1	Primary or Secondary All Ortho Except Gait and Leg	Locomotion = 1 or 2	38,259	(1.45)	(0.18)	2,938	(68.28)	(1.67)
i_bortho1_dd2_loco_ge3	Primary or Secondary All Ortho Except Gait and Leg	Locomotion >= 3	5,660	7.21	0.75	504	(82.10)	(1.86)
i_bleg_dysp234	Primary or Secondary All Ortho Leg-Related Disorders	Dyspnea	2,246	19.47	2.24	375	(56.34)	(2.85)
i_bleg_press1234	Primary or Secondary All Ortho Leg-Related Disorders	Pressure Ulcers 1 to 4	694	(11.48)	(0.89)	100	42.94	1.42
i_bleg_multpulc	Primary or Secondary All Ortho Leg-Related Disorders	Multiple Pressure Ulcers	181	27.51	1.20	7	120.95	1.10
i_bleg_ther_ip	Primary or Secondary All Ortho Leg-Related Disorders	IV or Parenteral Therapy	153	100.90	4.63	31	81.80	1.58
i_bleg_ucontnew	Primary or Secondary All Ortho Leg-Related Disorders	Urinary Incontinence	1,646	0.55	0.06	296	(20.13)	(0.98)

**Exhibit A.1**

**Four-Equation “Kitchen Sink” Model Estimated for CY05 Two Decile File:**

**Legs Three and Four**

			Leg Three			Leg Four		
			N	Coeff	T Stat	N	Coeff	T Stat
i_bleg_dress13	Primary or Secondary All Ortho Leg-Related Disorders	Dressing 1 to 3	3,161	(15.46)	(1.27)	640	142.36	4.63
i_bleg_bth_ge2	Primary or Secondary All Ortho Leg-Related Disorders	Bathing >= 2	3,372	6.45	0.48	690	(36.11)	(0.95)
i_bleg_toi_ge2	Primary or Secondary All Ortho Leg-Related Disorders	Toileting >= 2	1,186	13.99	1.06	259	64.92	2.35
i_bleg_tfr_ge1	Primary or Secondary All Ortho Leg-Related Disorders	Transferring = 1	2,404	0.44	0.03	460	161.02	3.59
i_bleg_tfr_ge2	Primary or Secondary All Ortho Leg-Related Disorders	Transferring >= 2	1,086	(9.30)	(0.48)	253	19.06	0.37
i_bleg_loco_ge1	Primary or Secondary All Ortho Leg-Related Disorders	Locomotion = 1 or 2	2,711	17.36	0.58	536	(4.95)	(0.03)
i_bleg_loco_ge3	Primary or Secondary All Ortho Leg-Related Disorders	Locomotion >= 3	1,164	6.45	0.20	216	(32.91)	(0.17)
i_bgait_dysp234	Primary or Secondary Gait Disorders	Dyspnea	13,567	13.21	3.19	3,806	(54.36)	(6.28)
i_bgait_press1234	Primary or Secondary Gait Disorders	Pressure Ulcers 1 to 4	1,621	28.28	3.89	615	9.62	0.67
i_bgait_multpalc	Primary or Secondary Gait Disorders	Multiple Pressure Ulcers	107	32.14	1.24	30	(278.48)	(5.02)
i_bgait_ther_ip	Primary or Secondary Gait Disorders	IV or Parenteral Therapy	219	(6.30)	(0.35)	89	(43.34)	(1.25)
i_bgait_ucontnew	Primary or Secondary Gait Disorders	Urinary Incontinence	10,836	8.91	2.28	3,316	30.07	3.58
i_bgait_dress13	Primary or Secondary Gait Disorders	Dressing 1 to 3	17,405	5.26	0.93	6,117	79.28	5.76
i_bgait_bth_ge2	Primary or Secondary Gait Disorders	Bathing >= 2	18,527	12.60	2.00	6,489	(29.58)	(1.81)
i_bgait_toi_ge2	Primary or Secondary Gait Disorders	Toileting >= 2	4,658	(9.65)	(1.67)	1,801	(30.74)	(2.55)
i_bgait_tfr_ge1	Primary or Secondary Gait Disorders	Transferring = 1	15,163	(1.33)	(0.19)	4,868	21.47	1.32
i_bgait_tfr_ge2	Primary or Secondary Gait Disorders	Transferring >= 2	4,012	(42.52)	(4.62)	1,737	(62.67)	(3.10)
i_bgait_loco_ge1	Primary or Secondary Gait Disorders	Locomotion = 1 or 2	18,360	(35.01)	(2.25)	5,990	(49.31)	(1.00)
i_bgait_loco_ge3	Primary or Secondary Gait Disorders	Locomotion >= 3	2,517	(19.83)	(1.17)	1,082	(9.25)	(0.18)
new_blind_I	Primary or Secondary Blindness or Low Vision		1,942	32.29	3.84	84	48.28	1.22
v_trach	V Codes Tracheotomy		566	27.38	2.54	32	7.04	0.15
v_urinary	V Codes Urinary		897	28.17	3.30	44	318.21	8.07
v_cysto	V Codes Cystomy		1,297	24.33	3.39	29	130.58	2.73

## Exhibit A.2: Alternative Look-Back Periods for APR DRGs

**Exhibit A.2****Alternative Look-Back Periods for APR DRGs**

<b>APR_DRG</b>	<b>APR_DESC</b>	<b>5-Level Look-Back</b>	<b>2-Level Look-Back</b>
002	Heart &/or lung transplant	4 years	4 years
004	Tracheostomy except for face,mouth & neck diagnoses	2 years	4 years
005	Tracheostomy for face,mouth & neck diagnoses	2 years	4 years
021	Craniotomy except for trauma	6 months	6 months
022	Ventricular shunt procedures	6 months	6 months
024	Extracranial vascular procedures	6 weeks	6 months
026	Nervous syst proc for cranial nerv & oth nerv sys disord	2 years	4 years
044	Intracranial hemorrhage	6 months	6 months
045	CVA w infarct	6 months	6 months
046	Nonspecific cva & precerebral occlusion w/o infarct	3 months	6 months
047	Transient ischemia	6 weeks	6 months
058	Other disorders of nervous system	6 months	6 months
120	Major respiratory procedures	4 years	4 years
121	Non-major respiratory procedures	4 years	4 years
130	Respiratory system diagnosis w ventilator support 96+ hours	6 months	6 months
131	Cystic fibrosis	4 years	4 years
133	Pulmonary edema & respiratory failure	6 months	6 months
136	Respiratory malignancy	6 months	6 months
137	Respiratory infections & inflammations	6 months	6 months
139	Simple pneumonia	6 months	6 months
140	Chronic obstructive pulmonary disease	2 years	4 years
142	Interstitial lung disease	2 years	4 years
143	Pneumothorax & pleural effusion	3 months	6 months
144	Respiratory system signs, symptoms & other diagnoses	3 months	6 months
161	Cardiac defibrillator implant	6 weeks	6 months
162	Cardiac valve procedures w cardiac catheterization	3 months	6 months
165	Coronary bypass w/o malfunctioning coronary bypass w cardiac cath	3 months	6 months
166	Coronary bypass w/o malfunctioning coronary bypass w/o cardiac cath	3 months	6 months
167	Other cardiothoracic procedures	3 months	6 months
169	Major abdominal vascular procedures	3 months	6 months
170	Permanent cardiac pacemaker implant w AMI,heart failure or shock	3 months	6 months
171	Perm cardiac pacemaker implant w/o AMI, heart failure or shock	6 weeks	6 months
173	Other vascular procedures	3 months	6 months
174	Percutaneous cardiovascular procedures w AMI	3 months	6 months
175	Percutaneous cardiovascular procedures w/o AMI	6 weeks	6 months
176	Cardiac pacemaker & defibrillator device replacement	6 weeks	6 months
177	Cardiac pacemaker & defibrillator rev except device replacement	6 weeks	6 months
180	Other circulatory system procedures	3 months	6 months
190	Circulatory disorders w AMI	3 months	6 months
191	Cardiac catheterization w circ disord exc ischemic heart disease	6 weeks	6 months
192	Cardiac catheterization for ischemic heart disease	6 weeks	6 months
194	Heart failure	6 months	6 months
220	Major stomach, esophageal & duodenal procedures	3 months	6 months
221	Major small & large bowel procedures	4 years	4 years
222	Minor stomach, esophageal & duodenal procedures	3 months	6 months
223	Minor small & large bowel procedures	6 months	6 months
224	Peritoneal adhesiolysis	6 weeks	6 months
227	Hernia procedures except inguinal & femoral	3 months	6 months

**Exhibit A.2****Alternative Look-Back Periods for APR DRGs**

<b>APR_DRG</b>	<b>APR_DESC</b>	<b>5-Level Look-Back</b>	<b>2-Level Look-Back</b>
229	Other digestive system procedures	3 months	6 months
241	Peptic ulcer & gastritis	6 weeks	6 months
242	Major esophageal disorders	6 months	6 months
243	Other esophageal disorders	3 months	6 months
244	Diverticulitis & diverticulosis	6 weeks	6 months
253	Other & Unspecified Gastrointestinal Hemorrhage	3 months	6 months
254	Other Digestive System Diagnosis	6 weeks	6 months
260	Pancreas, liver & shunt procedures	2 years	4 years
262	Cholecystectomy except laparoscopic	6 weeks	6 months
263	Laparoscopic cholecystectomy	6 weeks	6 months
301	Major joint & limb reattach proc of lower extremity for trauma	6 months	6 months
302	Major joint & limb reattach proc of lower extrem exc for trauma	6 months	6 months
308	Hip & femur procedures except major joint for trauma	6 months	6 months
340	Fractures of femur	6 months	6 months
420	Diabetes	6 months	6 months
425	Electrolyte disorders except hypovolemia related	3 months	6 months
447	Other kidney & urinary tract procedures	4 years	4 years
460	Renal failure	4 years	4 years
468	Other kidney & urinary tract diagnoses	6 weeks	6 months
511	Uterine & adnexa procedures for ovarian & adnexal malignancy	3 months	6 months
512	Uterine & adnexa procedures for non-ovarian & non-adnexal malig	3 months	6 months
513	Uterine & adnexa procedures for ca in situ & nonmalignancy	6 weeks	6 months
519	Uterine & Adnexa procedures for leiomyoma	6 weeks	6 months
663	Red blood cell disorders except sickle cell anemia crisis	3 months	6 months
710	Procedures for infectious & parasitic diseases	3 months	6 months
720	Septicemia	3 months	6 months
813	Complications of treatment	3 months	6 months
862	Other factors influencing health status	6 weeks	6 months
890	HIV w multiple major HIV related infections	4 years	4 years
892	HIV w maj HIV rel diag w/o mult maj or signif HIV rel diag	4 years	4 years
912	Musculoskeletal & Other procedures for multiple significant trauma	2 years	4 years
930	Head, chest & lower limb diagnoses of multiple significant trauma	2 years	4 years

## **Exhibit A.3: Comparison of NRS Scores Derived from Three NRS Models**



**Exhibit A.3**

**Comparison of NRS Scores Derived from Three NRS Models**

<b>Model A (R<sup>2</sup>=0.1533)</b>		<b>Model B (R<sup>2</sup>=0.1454)</b>		<b>Model C (R<sup>2</sup>=0.1452)</b>	
			23	ostomy_1	21
ostomy_2	36	ostomy_2	36	ostomy_2	35
pu12cnt_1	9	pu12cnt_1	11	pu12cnt_1	12
pu12cnt_23	16	pu12cnt_23	19	pu12cnt_23	20
pu12cnt_4p	27	pu12cnt_4p	31	pu12cnt_4p	30
pu34cnt_12	31	pu34cnt_12	40		
pu34cnt_3	62	pu34cnt_3	74		
pu34cnt_4	66	pu34cnt_4	77		
pu34cnt_5p	128	pu34cnt_5p	141		
				m0450d_1	31
				m0450d_2	41
				m0450d_34	57
				m0450e_1	52
				m0450e_2	80
				m0450e_34	104
Puunobs	16	PUunobs	17	PUunobs	16
stasis2	10	stasis2	10	stasis2	18
stasis3	19	stasis3	20	stasis3	28
stasiscnt_23	15	stasiscnt_23	15	stasiscnt_23	17
stasiscnt_4	32	stasiscnt_4	32	stasiscnt_4	34
surg2	4	surg2	5	surg2	5
surg3	17	surg3	19	surg3	18
ther_e	8	ther_e	13		
ther_l	10	ther_i	11	ther_i	11
ucont2	11	ucont2	16	ucont2	17
skin_ostomy1	23	skin_ostomy1	26	nskin_ostomy1	22
skin_ostomy2	7	skin_ostomy2	8	nskin_ostomy2	7
btm0440o	11	btm0440o	12	ptrauma_1	16
btrmsp_o	5	btrmsp_o	6	ppostop_1	32
diab_ulcr	9	diab_ulcr	9	pulcer	10
Pskincanc	10	pskincanc	9	pskin	19
Pnpulcer	20	pnpulcer	21	ppostop_2	23
Pwounds	22	pwounds	18	pgangrene	10
Snpulcer	8	snpulcer	8	pgi_wound	19
Sskincanc	6	sskincanc	5	pca_skin	16
Swounds	14	swounds	9	Pcell	13
				strauma_1	7
				spostop_1	15
				sulcer	8
				Sskin	7
				spostop_2	15
				sgangrene	11
				sgi_wound	8
				scell	6

Source: Abt Associates, Inc analysis of 2001 Home Health Datalink File