

**Table 1C: Medicare Utilization and Reimbursement in the One-Year Period Following Diagnosis,  
Fee-for-Service Beneficiaries with a 2014 Diagnosis of Congestive Heart Failure (CHF),  
(Based on the 5% Part A & B Limited Data Sets)**

Measure	All Beneficiaries with CHF	Beneficiaries with CHF & Depression	Beneficiaries with CHF & Chronic Kidney Disease	All Beneficiaries with CHF	Beneficiaries with CHF & Depression	Beneficiaries with CHF & Chronic Kidney Disease
Number of beneficiaries	38,996	11,135	15,844			
Months of eligibility in year following diagnosis	402,200	113,625	148,869			
<b>Utilization, Part A and B</b>	<b>Events</b>			<b>Events Per 1,000 months</b>		
E&M carrier visits (excludes FQHC/RHC/outpatient)	990,254	374,875	507,557	2,462	3,299	3,409
Primary-care physicians	447,281	169,975	237,515	1,112	1,496	1,595
Other physicians	379,572	135,062	194,914	944	1,189	1,309
Other practitioners	158,373	68,336	73,391	394	601	493
Other Part B providers	5,028	1,502	1,737	13	13	12
Acute hospital inpatient stays	47,521	17,374	26,343	118	153	177
Related to CHF	34,239	11,655	19,380	85	103	130
Emergency Department visits (outpatient)	34,162	14,226	14,832	85	125	100
Related to CHF	14,984	5,652	6,530	37	50	44
Observation stays	6,333	2,319	2,702	16	20	18
Related to CHF	4,429	1,528	1,840	11	13	12
SNF stays	14,331	6,656	8,288	36	59	56
HHA visits (unique service dates)	187,102	79,753	97,898	465	702	658
Hospice admissions	5,713	2,173	2,945	14	19	20
<b>E&amp;M Reimbursement by Provider Type &amp; Specialty</b>	<b>Total \$</b>			<b>\$ Per Beneficiary Per Month</b>		
Total, all providers and specialties	\$96,714,828	\$36,439,438	\$52,841,352	\$240	\$321	\$355
Total, physicians	88,939,861	32,501,110	49,000,822	221	286	329
Total, practitioners	7,760,348	3,933,376	3,834,895	19	35	26
Total, other providers	14,620	4,950	5,633	0	0	0
Physician / Internal medicine	\$25,764,213	\$9,900,292	\$14,837,105	\$64	\$87	\$100
Physician / Cardiology	10,216,942	2,816,853	5,261,275	25	25	35
Physician / Family practice	8,783,946	3,293,329	4,215,056	22	29	28
Physician / Pulmonary disease	6,483,912	2,358,759	3,984,847	16	21	27
Physician / Emergency medicine	6,529,461	2,625,461	3,425,299	16	23	23
Physician / Nephrology	3,136,774	1,028,483	2,821,207	8	9	19

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Nurse practitioner	4,448,924	2,106,588	2,298,472	11	19	15
Physician / Infectious disease	2,501,544	1,020,872	1,775,729	6	9	12
Physician / Hematology/oncology	2,135,466	669,881	1,200,852	5	6	8
Physician / Physical medicine and rehabilitation	2,010,869	891,776	1,090,742	5	8	7
Physician / Neurology	1,911,185	794,958	976,761	5	7	7
Physician / Gastroenterology	1,679,579	622,697	974,139	4	5	7
Physician / Critical care (intensivists)	1,410,307	495,050	938,671	4	4	6
Physician assistant	1,815,270	746,204	901,269	5	7	6
Physician / Ophthalmology	2,379,562	568,560	889,333	6	5	6
Physician / General surgery	1,349,321	499,050	774,641	3	4	5
Physician / Urology	1,119,531	337,507	635,124	3	3	4
Physician / Psychiatry	1,427,169	1,102,806	601,827	4	10	4
Podiatry	978,203	355,800	442,298	2	3	3
Physician / Endocrinology	657,234	220,752	393,203	2	2	3
Clinical psychologist	830,098	663,538	385,556	2	6	3
Physician / Orthopedic surgery	913,215	330,647	336,948	2	3	2
Optometry	858,771	278,207	325,765	2	2	2
Physician / Medical oncology	555,301	165,816	289,004	1	1	2
Physician / Geriatric medicine	549,659	246,026	279,052	1	2	2
Physician / Cardiac electrophysiology	565,439	139,470	258,335	1	1	2
Physician / Dermatology	577,969	135,478	205,478	1	1	1
Licensed clinical social worker	336,635	275,255	111,237	1	2	1
All others	4,788,330	1,749,321	2,212,125	12	15	15
<b>E&amp;M Reimbursement Related to CHF, by Provider Type &amp; Specialty</b>	<b>Total \$</b>			<b>\$ Per Beneficiary Per Month</b>		
Total, all providers & specialties	\$14,974,599	\$4,740,647	\$7,986,572	\$37	\$42	\$54
Total, physicians	14,083,575	4,409,949	7,521,027	35	39	51
Total, practitioners	882,349	328,795	462,410	2	3	3
Total, other providers	8,678	1,901	3,141	0	0	0

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Measure	All Beneficiaries with CHF	Beneficiaries with CHF & Depression	Beneficiaries with CHF & Chronic Kidney Disease	All Beneficiaries with CHF	Beneficiaries with CHF & Depression	Beneficiaries with CHF & Chronic Kidney Disease
Physician / Cardiology	\$4,752,008	\$1,318,896	\$2,485,439	\$12	\$12	\$17
Physician / Internal medicine	4,344,832	1,457,247	2,425,402	11	13	16
Physician / Emergency medicine	1,736,802	610,052	896,840	4	5	6
Physician / Family practice	1,366,873	440,345	658,523	3	4	4
Physician / Pulmonary disease	693,794	220,670	402,558	2	2	3
Nurse practitioner	626,869	237,723	328,142	2	2	2
Physician / Cardiac electrophysiology	343,133	87,703	155,837	1	1	1
Physician assistant	243,449	86,190	128,635	1	1	1
Physician / Critical care (intensivists)	118,975	36,480	73,318	0	0	0
Physician / Nephrology	82,322	22,379	67,384	0	0	0
Physician / Geriatric medicine	80,284	32,482	41,987	0	0	0
Physician / Physical medicine and rehabilitation	56,447	19,845	37,731	0	0	0
Physician / Infectious disease	50,715	14,335	34,802	0	0	0
Physician / General surgery	52,829	18,837	29,391	0	0	0
Physician / General practice	55,379	16,059	26,948	0	0	0
Interventional cardiology	60,848	18,681	25,476	0	0	0
Physician / Anesthesiology	35,662	12,075	18,526	0	0	0
Physician / Cardiac surgery	33,134	8,047	17,587	0	0	0
Physician / Neurology	25,738	9,479	14,963	0	0	0
Physician / Hematology/oncology	28,107	6,274	14,502	0	0	0
Physician / Hospice and palliative care	21,551	8,516	14,493	0	0	0
Physician / Gastroenterology	20,827	5,651	12,722	0	0	0
Podiatry	18,689	6,585	8,967	0	0	0
Physician / Pediatric medicine	12,713	5,392	7,147	0	0	0
Physician / Thoracic surgery	10,999	3,760	5,354	0	0	0
Certified clinical nurse specialist	10,804	4,139	5,262	0	0	0
All others	90,819	32,803	48,642	0	0	0
<b>Non-E&amp;M Part B Reimbursement by Provider Type &amp; Specialty</b>	<b>Total \$</b>			<b>\$ Per Beneficiary Per Month</b>		
Total, all providers & specialties	\$43,818,804	\$13,144,001	\$19,829,001	\$109	\$116	\$133

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Total, physicians	35,704,913	10,666,665	16,731,805	89	94	112
Total, practitioners	5,094,324	1,616,296	2,097,819	13	14	14
Total, other providers	3,019,572	861,040	999,377	8	8	7
Physician / Cardiology	\$3,798,776	\$929,934	\$1,756,237	\$9	\$8	\$12
Physician / Anesthesiology	3,519,652	1,074,702	1,727,801	9	9	12
Physician / General surgery	2,342,159	754,659	1,273,607	6	7	9
Physician / Orthopedic surgery	2,553,559	976,890	972,962	6	9	7
Ambulatory surgical center	2,907,685	839,654	969,403	7	7	7
Physician / Cardiac surgery	1,800,094	406,834	915,126	4	4	6
Physician / Radiation oncology	2,061,694	507,553	882,411	5	4	6
Physician / Thoracic surgery	1,621,590	449,919	843,082	4	4	6
CRNA	1,780,213	584,327	836,393	4	5	6
Physician / Ophthalmology	2,170,000	577,423	801,846	5	5	5
Physician / Dermatology	1,949,625	375,263	758,096	5	3	5
Physical therapist in private practice	2,169,516	636,186	746,017	5	6	5
Physician / Urology	1,251,040	295,733	701,483	3	3	5
Physician / Vascular surgery	1,201,613	548,073	620,251	3	5	4
Podiatry	1,374,519	490,814	602,267	3	4	4
Physician / Diagnostic radiology	938,213	307,282	548,038	2	3	4
Physician / Gastroenterology	1,125,143	365,208	533,216	3	3	4
Physician / Hematology/oncology	809,848	276,533	411,755	2	2	3
Physician / Nephrology	340,055	98,241	326,880	1	1	2
Physician / Internal medicine	707,455	197,443	325,464	2	2	2
Physician / Cardiac electrophysiology	851,371	201,233	318,913	2	2	2
Physician / Neurosurgery	758,997	291,952	284,040	2	3	2
Physician assistant	570,683	174,469	268,309	1	2	2
Physician / Otolaryngology	690,391	200,083	253,972	2	2	2
Physician / Interventional radiology	305,405	86,729	220,084	1	1	1

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Physician / Plastic and reconstructive surgery	376,542	133,582	198,664	1	1	1
Physician / Pulmonary disease	289,763	91,485	183,800	1	1	1
Physician / Family practice	429,410	148,591	177,643	1	1	1
All others	3,123,798	1,123,206	1,371,241	8	10	9
<b>Non-E&amp;M Part B Reimbursement Related to CHF, by Provider Type &amp; Specialty</b>	<b>Total \$</b>			<b>\$ Per Beneficiary Per Month</b>		
Total, all providers & specialties	\$1,947,734	\$472,308	\$842,989	\$5	\$4	\$6
Total, physicians	1,794,988	429,594	776,171	4	4	5
Total, practitioners	151,917	42,642	66,465	0	0	0
Total, other providers	760	0	284	0	0	0
Physician / Cardiology	\$757,082	\$177,951	\$326,152	\$2	\$2	\$2
Physician / Cardiac electrophysiology	503,978	121,558	185,100	1	1	1
Physician / Anesthesiology	212,393	46,633	90,513	1	0	1
CRNA	126,509	30,706	51,504	0	0	0
Physician / Emergency medicine	69,643	22,511	39,899	0	0	0
Physician / Internal medicine	57,640	15,621	30,276	0	0	0
Physician / Thoracic surgery	50,993	11,238	29,154	0	0	0
Physician / Cardiac surgery	52,204	8,935	22,765	0	0	0
Physician / Pulmonary disease	21,835	6,251	14,716	0	0	0
Physician / Critical care (intensivists)	14,301	3,105	10,006	0	0	0
Physician assistant	8,290	2,289	5,163	0	0	0
Physician / General surgery	8,721	3,261	4,837	0	0	0
Interventional cardiology	11,590	2,284	4,428	0	0	0
Physician / Diagnostic radiology	7,028	1,346	3,961	0	0	0
Physician / Family practice	7,654	1,887	3,736	0	0	0
Physical therapist in private practice	6,067	4,709	3,639	0	0	0
Occupational therapist in private practice	4,381	2,996	2,493	0	0	0
Podiatry	3,350	1,223	2,159	0	0	0
Nurse practitioner	4,089	945	2,126	0	0	0

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Physician / Otolaryngology	3,034	1,949	1,819	0	0	0
Physician / Vascular surgery	2,328	166	1,626	0	0	0
Anesthesiologist Assistant	2,536	997	1,495	0	0	0
Physician / Gastroenterology	1,281	539	826	0	0	0
Physician / Nephrology	927	290	762	0	0	0
Physician / Interventional radiology	1,037	72	670	0	0	0
Physician / Physical medicine/rehab	1,071	1,051	20	0	0	0
Physician / Surgical oncology	340	340	0	0	0	0
All others	6,385	1,454	2,782	0	0	0
<b>Other Part B Reimbursement</b>	<b>Total \$</b>			<b>\$ Per Beneficiary Per Month</b>		
Outpatient Emergency Department	\$12,142,591	\$4,992,445	\$5,352,725	\$30	\$44	\$36
Emergency Department related to CHF	6,547,878	2,447,104	2,873,745	16	22	19
Lab and tests	51,545,343	16,676,229	21,909,781	128	147	147
Labs and Tests related to CHF	12,453,647	3,745,102	4,959,658	31	33	33
Part B drugs	203,295	71,943	96,958	1	1	1
Part B drugs related to CHF	74,276	24,207	31,494	0	0	0
Durable Medical Equipment	20,722,393	7,244,967	9,674,611	52	64	65
Other Part B services	134,310,832	41,782,331	59,150,291	334	368	397
Other Part B services related to CHF	41,983,662	10,877,742	16,145,680	104	96	108
<b>Part A Reimbursement</b>	<b>Total \$</b>			<b>\$ Per Beneficiary Per Month</b>		
Inpatient	\$706,510,007	\$253,838,655	\$422,813,502	\$1,757	\$2,234	\$2,840
Inpatient related to CHF	522,850,954	174,136,888	319,473,937	1,300	1,533	2,146
Skilled Nursing Facility	154,474,932	72,641,850	87,511,343	384	639	588
Home Health	68,032,776	28,453,060	34,440,528	169	250	231
Hospice	33,947,997	13,510,281	15,940,747	84	119	107
<b>Total Part A &amp; B Reimbursement</b>	<b>Total \$</b>			<b>\$ Per Beneficiary Per Month</b>		
Part A and B	\$1,324,112,802	\$489,441,148	\$730,620,582	\$3,292	\$4,308	\$4,908
Part A	962,965,712	368,443,847	560,706,120	2,394	3,243	3,766

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Part B	361,147,090	120,997,301	169,914,462	898	1,065	1,141

**NOTES**

- Population includes Medicare Fee-for-service beneficiaries eligible for Parts A&B in calendar years 2014 and 2015. Initial diagnosis of CHF must have occurred in 2014. Excludes patients not covered by Parts A & B, with ESRD, enrolled in a Medicare Advantage plan, and residing outside the 50 states or DC.
- Reimbursement totals are estimated beginning on the date in which CHF was initially diagnosed and continuing through a full calendar year post-diagnosis. Reimbursement is based on 2014 and 2015 claims, as reported in the Medicare 5% Limited Data Sets.
- Patients with CHF are identified as those with at least 1 inpatient, hospital outpatient or carrier claim with the following ICD-9 codes: DX 398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 428.0, 428.1, 428.20, 428.21, 428.22, 428.23, 428.30, 428.31, 428.32, 428.33, 428.40, 428.41, 428.42, 428.43, 428.9 OR ICD-10 codes I09.81, I11.0, I13.0, I13.2, I50.1, I50.20, I50.21, I50.22, I50.23, I50.30, I50.31, I50.32, I50.33, I50.40, I50.41, I50.42, I50.43, I50.9.
- Patients with depression are identified as those with at least 1 inpatient, SNF, HHA, hospital outpatient or carrier claim with the following ICD-9 codes: DX 296.20, 296.21, 296.22, 296.23, 296.24, 296.25, 296.26, 296.30, 296.31, 296.32, 296.33, 296.34, 296.35, 296.36, 296.50, 296.51, 296.52, 296.53, 296.54, 296.55, 296.56, 296.60, 296.61, 296.62, 296.63, 296.64, 296.65, 296.66, 296.89, 298.0, 300.4, 309.1, 311 OR ICD-10 codes F31.30, F31.31, F31.32, F31.4, F31.5, F31.60, F31.61, F31.62, F31.63, F31.64, F31.75, F31.76, F31.77, F31.78, F31.81, F32.0, F32.1, F32.2, F32.3, F32.4, F32.5, F32.9, F33.0, F33.1, F33.2, F33.3, F33.40, F33.41, F33.42, F33.9, F34.1, F43.21.
- Patients with chronic kidney disease are identified as those with at least 1 inpatient, SNF, or HHA or 2 hospital outpatient or carrier claims with the following ICD-9 codes: DX 016.00, 016.01, 016.02, 016.03, 016.04, 016.05, 016.06, 095.4, 189.0, 189.9, 223.0, 236.91, 249.40, 249.41, 250.40, 250.41, 250.42, 250.43, 271.4, 274.10, 283.11, 403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93, 440.1, 442.1, 572.4, 580.0, 580.4, 580.81, 580.89, 580.9, 581.0, 581.1, 581.2, 581.3, 581.81, 581.89, 581.9, 582.0, 582.1, 582.2, 582.4, 582.81, 582.89, 582.9, 583.0, 583.1, 583.2, 583.4, 583.6, 583.7, 583.81, 583.89, 583.9, 584.5, 584.6, 584.7, 584.8, 584.9, 585.1, 585.2, 585.3, 585.4, 585.5, 585.6, 585.9, 586, 587, 588.0, 588.1, 588.81, 588.89, 588.9, 591, 753.12, 753.13, 753.14, 753.15, 753.16, 753.17, 753.19, 753.20, 753.21, 753.22, 753.23, 753.29, 794.4 OR ICD-10 codes A18.11, A52.75, B52.0, C64.1, C64.2, C64.9, C68.9, D30.00, D30.01, D30.02, D41.00, D41.01, D41.02, D41.10, D41.11, D41.12, D41.20, D41.21, D41.22, D59.3, E08.21, E08.22, E08.29, E08.65, E09.21, E09.22, E09.29, E10.21, E10.22, E10.29, E10.65, E11.21, E11.22, E11.29, E11.65, E13.21, E13.22, E13.29, E74.8, I12.0, I13.11, I13.2, I70.1, I72.2, K76.7, M10.30, M10.311, M10.312, M10.319, M10.321, M10.322, M10.329, M10.331, M10.332, M10.339, M10.341, M10.342, M10.349, M10.351, M10.352, M10.359, M10.361, M10.362, M10.369, M10.371, M10.372, M10.379, M10.38, M10.39, M32.14, M32.15, M35.04, N00.0, N00.1, N00.2, N00.3, N00.4, N00.5, N00.6, N00.7, N00.8, N00.9, N01.0, N01.1, N01.2, N01.3, N01.4, N01.5, N01.6, N01.7, N01.8, N01.9, N02.0, N02.1, N02.2, N02.3, N02.4, N02.5, N02.6, N02.7, N02.8, N02.9, N03.0, N03.1, N03.2, N03.3, N03.4, N03.5, N03.6, N03.7, N03.8, N03.9, N04.0, N04.1, N04.2, N04.3, N04.4, N04.5, N04.6, N04.7, N04.8, N04.9, N05.0, N05.1, N05.2, N05.3, N05.4, N05.5, N05.6, N05.7, N05.8, N05.9, N06.0, N06.1, N06.2, N06.3, N06.4, N06.5, N06.6, N06.7, N06.8, N06.9, N07.0, N07.1, N07.2, N07.3, N07.4, N07.5, N07.6, N07.7, N07.8, N07.9, N08, N13.1, N13.2, N13.30, N13.39, N14.0, N14.1, N14.2, N14.3, N14.4, N15.0, N15.8, N15.9, N16, N17.0, N17.1, N17.2, N17.8, N17.9, N18.1, N18.2, N18.3, N18.4, N18.5, N18.6, N18.9, N19, N25.0, N25.1, N25.81, N25.89, N25.9, N26.1, N26.9, Q61.02, Q61.11, Q61.19, Q61.2, Q61.3, Q61.4, Q61.5, Q61.8, Q62.0, Q62.2, Q62.10, Q62.11, Q62.12, Q62.31, Q62.32, Q62.39, R94.4