

Appendix F

Part B Therapy Users CY 2002:

Most Frequently Observed Diagnosis Tables -  
Volume Ranking

## Key to Appendix F:

The tables in Appendix F describe the most commonly reported Part B therapy user diagnosis groups in CY 2002. Individual therapy users are classified by the first principal claim diagnosis listed during the first therapy encounter.

ICD-9 code groups with the greatest number of unique therapy users within each type of therapy group (PT, OT, SLP, PT/SLP and “All Therapy Users”) are ranked from the most common occurrence (Rank = 1) to less frequently occurring. Most tables contain the first 100 ranked diagnosis groups.

The “Row Percent” column describes the percentage of all therapy users in that group that were classified with the diagnosis listed in the row. For example, in Appendix F-Table 1, the diagnosis “Other physical therapy” (V57.1) represented 9.24% of all therapy users in CY 2002.

The “Cumulative Percent” column indicates the increasing percentage of therapy users that are accounted at each ranking level. For example, in appendix F-Table 1, by the 99<sup>th</sup> ranked diagnosis, 72.49% of therapy users are accounted for in the “All Therapies Users” group.

Appendix F- Table 6 provides a variation of Appendix F- Table 1. Both tables describe individual therapy users that received any type of therapy services (PT and/or OT and/or SLP) in CY 2002. While Appendix F-Table 1 describes the most frequently occurring diagnosis groups among all therapy users, Appendix F- Table 6 describes the most frequently occurring diagnosis groups among therapy users representing the top 5 percent in annual expenditures.

These tables provide a general picture of the types of diagnoses most often reported for average users of therapy services and highlight differences in volume and ranking depending upon the type of therapy services being described. It also highlights the differences in volume and ranking when comparing high expenditure users with average users of therapy services.

## Appendix F-Table 1 Most Frequently Observed Diagnoses: All Therapy Types

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	All Therapy Users (N)	Row Percent	Cumulative Percent
		All diagnoses	3,747,396		
1	V57.1	Other physical therapy	346,228	9.24%	9.24%
2	724.2	Lumbago	220,207	5.88%	15.12%
3	781.2	Abnormality of gait	118,604	3.16%	18.28%
4	787.2	Dysphagia	108,767	2.90%	21.18%
5	719.41	Pain in joint, shoulder region	90,650	2.42%	23.60%
6	723.1	Cervicalgia	81,198	2.17%	25.77%
7	719.46	Pain in joint, lower leg	77,979	2.08%	27.85%
8	436	Acute, but ill-defined, cerebrovascular disease	63,108	1.68%	29.53%
9	729.5	Pain in limb	46,447	1.24%	30.77%
10	715.96	Osteoarthritis, unspecified whether generalized or localized, lower leg	45,616	1.22%	31.99%
11	726.10	Disorders of bursae and tendons in shoulder region, not elsewhere classified	45,137	1.20%	33.19%
12	840.4	Sprains and strains, rotator cuff (capsule)	43,511	1.16%	34.36%
13	724.02	Spinal stenosis, other than cervical, lumbar region	41,503	1.11%	35.46%
14	719.45	Pain in joint, pelvic region and thigh	41,087	1.10%	36.56%
15	724.5	Backache, unspecified	41,020	1.09%	37.65%
16	715.16	Osteoarthritis, localized, primary, lower leg	37,889	1.01%	38.67%
17	722.52	Degeneration of lumbar or lumbosacral intervertebral disc	34,861	0.93%	39.60%
18	719.70	Difficulty in walking, site unspecified	33,965	0.91%	40.50%
19	728.2	Muscular wasting and disuse atrophy, not elsewhere classified	33,681	0.90%	41.40%
20	724.4	Thoracic or lumbosacral neuritis or radiculitis, unspecified	33,315	0.89%	42.29%
21	847.2	Sprains and strains, lumbar	33,215	0.89%	43.18%
22	715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	31,297	0.84%	44.01%
23	V57.21	Occupational therapy encounter	31,251	0.83%	44.85%
24	847.0	Sprains and strains, neck	30,344	0.81%	45.66%
25	724.3	Sciatica	28,942	0.77%	46.43%
26	726.0	Adhesive capsulitis of shoulder	28,204	0.75%	47.18%
27	728.9	Unspecified disorder of muscle, ligament, and fascia	27,857	0.74%	47.92%
28	799.3	Debility, unspecified	27,202	0.73%	48.65%
29	332.0	Parkinson's disease, paralysis agitans	26,013	0.69%	49.34%
30	726.2	Other affections of shoulder region, not elsewhere classified	24,874	0.66%	50.01%
31	728.71	Plantar fascial fibromatosis	24,088	0.64%	50.65%
32	780.9	Other general symptoms	23,350	0.62%	51.27%
33	780.79	Other malaise and fatigue	23,009	0.61%	51.89%
34	726.5	Enthesopathy of hip region	21,650	0.58%	52.46%
35	V43.65	Joint replacement, knee	21,183	0.57%	53.03%
36	354.0	Carpal Tunnel Syndrome	20,919	0.56%	53.59%
37	729.1	Myalgia and myositis, unspecified	20,736	0.55%	54.14%
38	V57.89	Other specified rehabilitation procedure, other	19,776	0.53%	54.67%
39	428.0	Congestive Heart Failure, unspecified	19,445	0.52%	55.19%
40	331.0	Alzheimer's Disease	19,428	0.52%	55.71%
41	721.3	Lumbosacral spondylosis without myelopathy	19,191	0.51%	56.22%
42	722.10	Displacement of lumbar intervertebral disc without myelopathy	18,618	0.50%	56.72%
43	728.85	Spasm of muscle	18,576	0.50%	57.21%
44	721.0	Cervical spondylosis without myelopathy	17,882	0.48%	57.69%
45	820.8	Fracture of neck of femur, unspecified part, closed	17,720	0.47%	58.16%
46	723.4	Brachia neuritis or radiculitis NOS	16,744	0.45%	58.61%
47	719.47	Pain in joint, ankle and foot	16,627	0.44%	59.05%
48	496	Chronic airway obstruction, not elsewhere classified	16,379	0.44%	59.49%
49	836.0	Tear of medial cartilage or meniscus of knee, current	15,770	0.42%	59.91%
50	722.4	Degeneration of cervical intervertebral disc	14,824	0.40%	60.31%
51	781.3	Lack of coordination	14,686	0.39%	60.70%
52	V57.3	Speech therapy	12,828	0.34%	61.04%
53	780.4	Dizziness and giddiness	12,803	0.34%	61.38%

## Appendix F-Table 1 Most Frequently Observed Diagnoses: All Therapy Types (Cont.)

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	All Therapy Users (N)	Row Percent	Cumulative Percent
54	727.61	Complete rupture of rotator cuff, non-traumatic	12,570	0.34%	61.72%
55	715.95	Osteoarthritis, unspecified whether generalized or localized, pelvic region and thigh	12,505	0.33%	62.05%
56	715.36	Osteoarthritis, localized, unspecified whether primary or secondary, lower leg	12,416	0.33%	62.38%
57	715.09	Osteoarthritis, generalized, multiple sites	12,232	0.33%	62.71%
58	846.0	Sprains and strains, lumbosacral (joint) (ligament)	12,102	0.32%	63.03%
59	457.1	Other lymphadema	11,800	0.31%	63.35%
60	714.0	Rheumatoid arthritis	11,533	0.31%	63.65%
61	250.00	Type II diabetes mellitus or unspecified type, not stated as uncontrolled, without mention of complication	11,519	0.31%	63.96%
62	486	Pneumonia, organism unspecified	11,509	0.31%	64.27%
63	401.9	Essential hypertension, unspecified	11,215	0.30%	64.57%
64	724.00	Spinal stenosis, other than cervical, unspecified region	10,829	0.29%	64.86%
65	840.9	Sprains and strains, unspecified part of shoulder and upper arm	10,585	0.28%	65.14%
66	721.90	Spondylosis of unspecified site, without mention of myelopathy	10,258	0.27%	65.41%
67	724.1	Pain in thoracic spine	10,097	0.27%	65.68%
68	812.00	Fracture of humerus, upper end, unspecified part	10,086	0.27%	65.95%
69	781.92	Abnormal posture	9,804	0.26%	66.21%
70	290.0	Senile dementia, uncomplicated	9,669	0.26%	66.47%
71	715.15	Osteoarthritis, localized, primary, pelvic region and thigh	9,456	0.25%	66.72%
72	715.00	Osteoarthritis, generalized, site unspecified	9,343	0.25%	66.97%
73	438.0	Late effects of cerebrovascular disease, cognitive deficits	9,175	0.24%	67.22%
74	719.79	Difficulty in walking, multiple sites	9,149	0.24%	67.46%
75	733.00	Osteoporosis, unspecified	9,139	0.24%	67.71%
76	726.90	Enthesopathy of unspecified site, capsulitis, peri arthritis, tendinitis	9,113	0.24%	67.95%
77	340	Multiple sclerosis	9,074	0.24%	68.19%
78	813.42	Other fractures of distal end of radius (alone)	8,616	0.23%	68.42%
79	844.9	Sprains and strains, knee and leg, unspecified site	8,597	0.23%	68.65%
80	726.11	Calcifying tendinitis of shoulder	8,341	0.22%	68.87%
81	438.20	Late effects of cerebrovascular disease, hemiplegia affecting unspecified side	8,329	0.22%	69.10%
82	294.8	Other specified organic brain syndromes (chronic)	8,143	0.22%	69.31%
83	V43.64	Joint replacement, hip	7,917	0.21%	69.52%
84	726.71	Achilles bursitis and tendinitis	7,831	0.21%	69.73%
85	812.20	Fracture of humerus, unspecified part	7,622	0.20%	69.94%
86	845.00	Sprains and strains, ankle, unspecified site	7,492	0.20%	70.14%
87	718.44	Contracture of joint, hand	7,234	0.19%	70.33%
88	707.0	Decubitus ulcer	7,211	0.19%	70.52%
89	729.89	Other musculoskeletal symptoms referable to limbs, other	7,173	0.19%	70.71%
90	782.3	Edema	7,117	0.19%	70.90%
91	599.0	Urinary tract infection, site not specified	6,994	0.19%	71.09%
92	719.44	Other and unspecified disorders of joint, hand	6,961	0.19%	71.28%
93	438.9	Late effects of cerebrovascular disease, unspecified late effects of cerebrovascular disease	6,726	0.18%	71.45%
94	715.91	Osteoarthritis, unspecified whether generalized or localized, shoulder region	6,716	0.18%	71.63%
95	716.90	Arthropathy, unspecified, site unspecified	6,616	0.18%	71.81%
96	847.1	Sprains and strains, thoracic	6,518	0.17%	71.98%
97	722.6	Degeneration of intervertebral disc, site unspecified	6,487	0.17%	72.16%
98	719.76	Difficulty in walking, lower leg	6,358	0.17%	72.33%
99	719.75	Difficulty in walking, pelvic region and thigh	6,257	0.17%	72.49%

## Appendix F-Table 2 Most Frequently Observed Diagnoses: PT Users

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	PT Users (N)	Row Percent	Cumulative Percent
		All diagnoses	3,296,407		
1	V57.1	Other physical therapy	338,509	10.27%	10.27%
2	724.2	Lumbago	219,618	6.66%	16.93%
3	781.2	Abnormality of gait	116,623	3.54%	20.47%
4	719.41	Pain in joint, shoulder region	87,489	2.65%	23.12%
5	723.1	Cervicalgia	80,870	2.45%	25.58%
6	719.46	Pain in joint, lower leg	77,819	2.36%	27.94%
7	436	Acute, but ill-defined cerebrovascular disease	47,710	1.45%	29.38%
8	715.96	Osteoarthritis, unspecified whether generalized or localized, lower leg	45,399	1.38%	30.76%
9	729.5	Pain in limb	43,637	1.32%	32.09%
10	726.10	Disorders of bursae and tendons in shoulder region, not elsewhere classified	43,569	1.32%	33.41%
11	840.4	Sprains and strains, rotator cuff (capsule)	42,061	1.28%	34.68%
12	724.02	Spinal stenosis, other than cervical, lumbar region	41,355	1.25%	35.94%
13	719.45	Pain in joint, pelvic region and thigh	40,848	1.24%	37.18%
14	724.5	Backache, unspecified	40,774	1.24%	38.41%
15	715.16	Osteoarthritis, localized, primary, lower leg	37,809	1.15%	39.56%
16	722.52	Degeneration of lumbar or lumbosacral intervertebral disc	34,820	1.06%	40.62%
17	724.4	Thoracic or lumbosacral neuritis or radiculitis, unspecified	33,267	1.01%	41.63%
18	719.70	Difficulty in walking, site unspecified	33,263	1.01%	42.64%
19	847.2	Sprains and strains, lumbar	33,158	1.01%	43.64%
20	728.2	Muscular wasting and disuse atrophy, not elsewhere classified	30,297	0.92%	44.56%
21	847.0	Sprains and strains, neck	30,238	0.92%	45.48%
22	724.3	Sciatica	28,901	0.88%	46.35%
23	715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	27,731	0.84%	47.20%
24	726.0	Adhesive capsulitis of shoulder	27,227	0.83%	48.02%
25	728.9	Unspecified disorder of muscle, ligament, and fascia	25,424	0.77%	48.79%
26	728.71	Plantar fascial fibromatosis	24,055	0.73%	49.52%
27	726.2	Other affections of shoulder region, not elsewhere classified	23,944	0.73%	50.25%
28	787.2	Dysphagia	23,916	0.73%	50.97%
29	799.3	Debility, unspecified	22,507	0.68%	51.66%
30	726.5	Enthesopathy of hip region	21,619	0.66%	52.31%
31	V43.65	Joint replacement, knee	21,150	0.64%	52.95%
32	332.0	Paralysis agitans (Parkinson's Disease)	20,688	0.63%	53.58%
33	780.79	Other malaise and fatigue	20,531	0.62%	54.21%
34	729.1	Myalgia and myositis, unspecified	20,406	0.62%	54.82%
35	721.3	Lumbosacral spondylosis without myelopathy	19,137	0.58%	55.40%
36	722.10	Displacement of lumbar intervertebral disc without myelopathy	18,586	0.56%	55.97%
37	728.85	Spasm of muscle	18,316	0.56%	56.52%
38	V57.89	Other specified rehabilitation procedure, other	17,947	0.54%	57.07%
39	780.9	Other general symptoms	17,854	0.54%	57.61%
40	721.0	Cervical spondylosis without myelopathy	17,790	0.54%	58.15%
41	719.47	Pain in joint, ankle and foot	16,576	0.50%	58.65%
42	723.4	Brachia neuritis or radiculitis NOS	16,512	0.50%	59.15%
43	836.0	Tear of medial cartilage or meniscus of knee, current	15,755	0.48%	59.63%
44	820.8	Fracture of neck of femur, unspecified part, closed	15,603	0.47%	60.11%
45	428.0	Congestive Heart Failure, unspecified	15,154	0.46%	60.56%
46	722.4	Degeneration of cervical intervertebral disc	14,779	0.45%	61.01%
47	496	Chronic airway obstruction, not elsewhere classified	13,589	0.41%	61.43%
48	781.3	Lack of coordination	12,830	0.39%	61.81%
49	715.95	Osteoarthritis, unspecified whether generalized or localized, pelvic region and thigh	12,381	0.38%	62.19%
50	715.36	Osteoarthritis, localized, not specified whether primary or secondary, lower leg	12,358	0.37%	62.57%

## Appendix F-Table 2 Most Frequently Observed Diagnoses: PT Users (Cont.)

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	PT Users (N)	Row Percent	Cumulative Percent
51	780.4	Dizziness and giddiness	12,256	0.37%	62.94%
52	727.61	Complete rupture of rotator cuff, non-traumatic	12,194	0.37%	63.31%
53	846.0	Sprains and strains, lumbosacral (joint) (ligament)	12,078	0.37%	63.67%
54	354.0	Carpal Tunnel Syndrome	11,659	0.35%	64.03%
55	715.09	Osteoarthritis, generalized, multiple sites	11,276	0.34%	64.37%
56	331.0	Alzheimer's Disease	10,989	0.33%	64.70%
57	724.00	Spinal stenosis, other than cervical, unspecified region	10,654	0.32%	65.03%
58	840.9	Sprains and strains, unspecified part of shoulder and upper arm	10,265	0.31%	65.34%
59	721.90	Spondylosis of unspecified site, without mention of myelopathy	10,174	0.31%	65.65%
60	724.1	Pain in thoracic spine	10,062	0.31%	65.95%
61	715.15	Osteoarthritis, localized, primary, pelvic region and thigh	9,413	0.29%	66.24%
62	457.1	Other lymphadema	9,175	0.28%	66.51%
63	812.00	Fracture of humerus, upper end, unspecified part	9,060	0.27%	66.79%
64	719.79	Difficulty in walking, multiple sites	9,031	0.27%	67.06%
65	726.90	Enthesopathy of unspecified site, capsulitis, peri arthritis, tendonitis	8,856	0.27%	67.33%
66	714.0	Rheumatoid arthritis	8,607	0.26%	67.59%
67	844.9	Sprains and strains, knee and leg, unspecified site	8,580	0.26%	67.85%
68	715.00	Osteoarthritis, generalized, site unspecified	8,509	0.26%	68.11%
69	401.9	Essential hypertension, unspecified	8,360	0.25%	68.37%
70	250.00	Type II diabetes mellitus, without mention of complication, not stated as uncontrolled	8,316	0.25%	68.62%
71	726.11	Calcifying tendonitis of shoulder	8,159	0.25%	68.87%
72	V57.21	Occupational therapy encounter	8,115	0.25%	69.11%
73	486	Pneumonia, organism unspecified	7,983	0.24%	69.35%
74	733.00	Osteoporosis, unspecified	7,854	0.24%	69.59%
75	V43.64	Joint replacement, hip	7,835	0.24%	69.83%
76	726.71	Achilles bursitis and tendonitis	7,822	0.24%	70.07%
77	845.00	Sprains and strains, ankle, unspecified site	7,465	0.23%	70.29%
78	340	Multiple sclerosis	7,310	0.22%	70.51%
79	812.20	Fracture of humerus, unspecified part	6,556	0.20%	70.71%
80	847.1	Sprains and strains, thoracic	6,511	0.20%	70.91%
81	438.20	Late effects cerebrovascular disease, hemiplegia affecting unspecified side	6,430	0.20%	71.11%
82	722.6	Degeneration of intervertebral disc, site unspecified	6,424	0.19%	71.30%
83	715.91	Osteoarthritis, unspecified whether generalized or localized, shoulder region	6,399	0.19%	71.50%
84	782.3	Edema	6,317	0.19%	71.69%
85	719.76	Difficulty in walking, lower leg	6,305	0.19%	71.88%
86	719.75	Difficulty in walking, pelvic region and thigh	6,171	0.19%	72.07%
87	707.0	Decubitus ulcer	6,038	0.18%	72.25%
88	729.89	Other musculoskeletal symptoms referable to limbs, other	6,025	0.18%	72.43%
89	V72.83	Other specified preoperative examination	5,957	0.18%	72.61%
90	824.8	Fracture of ankle, unspecified, closed	5,856	0.18%	72.79%
91	726.73	Calcaneal spur	5,693	0.17%	72.96%
92	438.0	Late effects cerebrovascular disease, cognitive deficits	5,604	0.17%	73.13%
93	716.90	Arthropathy, unspecified, site unspecified	5,558	0.17%	73.30%
94	290.0	Senile dementia, uncomplicated	5,454	0.17%	73.47%
95	715.11	Osteoarthritis, localized, primary, shoulder region	5,426	0.16%	73.63%
96	726.79	Peroneal tendonitis	5,206	0.16%	73.79%
97	386.11	Benign paroxysmal positional vertigo	5,195	0.16%	73.95%
98	813.42	Other fracture of distal end of radius (alone)	5,142	0.16%	74.10%



### Appendix F-Table 3 Most Frequently Observed Diagnoses: OT Users

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	OT Users (N)	Row Percent	Cumulative Percent
		All diagnoses	745,241		
1	436	Acute, but ill-defined, cerebrovascular disease	32,726	4.39%	4.39%
2	V57.1	Other physical therapy	31,739	4.26%	8.65%
3	V57.21	Occupational therapy encounter	30,178	4.05%	12.70%
4	781.2	Abnormality of gait	27,369	3.67%	16.37%
5	780.9	Other general symptoms	15,644	2.10%	18.47%
6	787.2	Dysphagia	15,537	2.08%	20.56%
7	799.3	Debility, unspecified	15,224	2.04%	22.60%
8	728.2	Muscular wasting and disuse atrophy, not elsewhere classified	13,228	1.77%	24.37%
9	719.70	Difficulty in walking, site unspecified	12,341	1.66%	26.03%
10	354.0	Carpal Tunnel Syndrome	12,189	1.64%	27.67%
11	332.0	Parkinson's Disease paralysis agitans	10,865	1.46%	29.12%
12	428.0	Congestive Heart Failure, unspecified	9,939	1.33%	30.46%
13	728.9	Unspecified disorder of muscle, ligament, and fascia	9,857	1.32%	31.78%
14	331.0	Alzheimer's Disease	9,542	1.28%	33.06%
15	715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	9,522	1.28%	34.34%
16	780.79	Other malaise and fatigue	9,331	1.25%	35.59%
17	781.92	Abnormal posture	8,354	1.12%	36.71%
18	V57.89	Other care involving rehabilitation procedures, multiple training or therapy	7,819	1.05%	37.76%
19	724.2	Lumbago	7,379	0.99%	38.75%
20	719.41	Pain in joint, shoulder region	6,777	0.91%	39.66%
21	496	Chronic airway obstruction, not elsewhere classified	6,716	0.90%	40.56%
22	820.8	Fracture of neck of femur, unspecified part, closed	6,612	0.89%	41.45%
23	718.44	Contracture of joint, hand	6,509	0.87%	42.32%
24	438.0	Late effects of cerebrovascular disease, cognitive deficits	5,678	0.76%	43.08%
25	401.9	Essential hypertension, unspecified type	5,625	0.75%	43.84%
26	250.00	Type II Diabetes Mellitus without mention of complication	5,580	0.75%	44.59%
27	781.3	Lack of coordination	5,391	0.72%	45.31%
28	729.5	Pain in limb	5,355	0.72%	46.03%
29	486	Pneumonia, organism unspecified	5,347	0.72%	46.75%
30	438.20	Hemiplegia affecting unspecified side	5,257	0.71%	47.45%
31	714.0	Rheumatoid arthritis	4,979	0.67%	48.12%
32	813.42	Other fracture of distal end of radius (alone)	4,707	0.63%	48.75%
33	290.0	Senile dementia, uncomplicated	4,702	0.63%	49.38%
34	294.8	Other specified organic brain syndromes (chronic)	4,197	0.56%	49.95%
35	457.1	Other lymphadema	3,917	0.53%	50.47%
36	715.09	Osteoarthritis, generalized, multiple sites	3,860	0.52%	50.99%
37	726.10	Disorders of bursae and tendons in shoulder region, unspecified	3,825	0.51%	51.50%
38	438.9	Unspecified late effects of cerebrovascular disease	3,708	0.50%	52.00%
39	340	Multiple sclerosis	3,658	0.49%	52.49%
40	599.0	Urinary tract infection, site not specified	3,480	0.47%	52.96%
41	719.44	Pain in joint, hand	3,419	0.46%	53.42%
42	728.6	Contracture of palmar fascia, Dupuytren's contracture	3,375	0.45%	53.87%
43	814.00	Fracture of carpal bone(s), closed, bone unspecified	3,352	0.45%	54.32%
44	729.89	Other musculoskeletal symptoms referable to limbs, other	3,233	0.43%	54.75%
45	719.79	Difficulty in walking, multiple sites	3,186	0.43%	55.18%
46	840.4	Sprains and strains, shoulder, rotator cuff (capsule)	3,166	0.42%	55.61%
47	733.00	Osteoporosis, unspecified	3,152	0.42%	56.03%
48	729.9	Other and unspecified disorders of soft tissue	3,118	0.42%	56.45%
49	727.03	Trigger finger (acquired)	3,031	0.41%	56.85%
50	715.96	Osteoarthritis, unspecified whether generalized or localized, lower leg	3,006	0.40%	57.26%
51	813.41	Colles' fracture	2,974	0.40%	57.66%
52	715.94	Osteoarthritis, unspecified whether generalized or localized, hand	2,835	0.38%	58.04%

### Appendix F-Table 3 Most Frequently Observed Diagnoses: OT Users (Cont.)

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	OT Users (N)	Row Percent	Cumulative Percent
53	438.21	Hemiplegia affecting dominant side	2,832	0.38%	58.42%
54	438.22	Hemiplegia affecting non-dominant side	2,746	0.37%	58.78%
55	783.3	feeding difficulties and mismanagement	2,640	0.35%	59.14%
56	718.49	Contracture of joint, multiple sites	2,570	0.34%	59.48%
57	435.9	Unspecified transient cerebral ischemia	2,566	0.34%	59.83%
58	719.46	Pain in joint, lower leg	2,547	0.34%	60.17%
59	707.0	Decubitus ulcer	2,547	0.34%	60.51%
60	250.01	Type I Diabetes Mellitus without mention of complication	2,525	0.34%	60.85%
61	716.90	Arthropathy, unspecified, site unspecified	2,456	0.33%	61.18%
62	723.1	Cervicalgia	2,419	0.32%	61.50%
63	812.20	Fracture of humerus, unspecified part of humerus, closed	2,389	0.32%	61.83%
64	715.14	Osteoarthritis, localized, primary, hand	2,253	0.30%	62.13%
65	438.89	Other late effects of cerebrovascular disease	2,238	0.30%	62.43%
66	715.00	Osteoarthritis, generalized, site unspecified	2,237	0.30%	62.73%
67	719.43	Pain in joint, forearm	2,201	0.30%	63.02%
68	434.91	Cerebral artery occlusion, unspecified, with cerebral infarction	2,198	0.29%	63.32%
69	812.00	Fracture of humerus, upper end, unspecified part, closed	2,156	0.29%	63.61%
70	726.0	Adhesive capsulitis of shoulder	2,076	0.28%	63.89%
71	781.99	Other symptoms involving nervous and musculoskeletal symptoms	2,034	0.27%	64.16%
72	780.2	Syncope and collapse	1,969	0.26%	64.42%
73	342.90	Hemiplegia, unspecified type, unspecified side affected	1,902	0.26%	64.68%
74	427.31	Atrial fibrillation	1,880	0.25%	64.93%
75	719.45	Pain in joint, pelvic region and thigh	1,868	0.25%	65.18%
76	414.00	Chronic ischemic heart disease, unspecified vessel, native or graft	1,795	0.24%	65.42%
77	726.2	Other affections of shoulder region, not elsewhere classified	1,785	0.24%	65.66%
78	724.5	Backache, unspecified	1,747	0.23%	65.90%
79	780.4	Dizziness and giddiness	1,729	0.23%	66.13%
80	719.75	Difficulty in walking, pelvic region and thigh	1,704	0.23%	66.36%
81	V72.83	Other specified preoperative examination	1,664	0.22%	66.58%
82	724.4	Thoracic or lumbosacral neuritis or radiculitis, unspecified	1,602	0.21%	66.80%
83	276.5	Disorders of fluid, electrolyte and acid-base balance, volume depletion	1,581	0.21%	67.01%
84	820.21	Fracture of neck of femur, peritrochanteric, closed, intertrochanteric section	1,572	0.21%	67.22%
85	727.05	Other tenosynovitis of hand or wrist	1,543	0.21%	67.43%
86	719.54	Stiffness in joint, not elsewhere classified, hand	1,501	0.20%	67.63%
87	V57.3	Speech therapy	1,491	0.20%	67.83%
88	847.2	Sprains and strains, lumbar	1,477	0.20%	68.02%
89	724.02	Spinal stenosis, lumbar region	1,463	0.20%	68.22%
90	723.4	Brachia neuritis or radiculitis NOS	1,436	0.19%	68.41%
91	719.76	Difficulty in walking, lower leg	1,402	0.19%	68.60%
92	729.1	Myalgia and myositis, unspecified	1,397	0.19%	68.79%
93	715.16	Osteoarthritis, localized, lower leg	1,385	0.19%	68.98%
94	443.9	Peripheral vascular disease, unspecified	1,377	0.18%	69.16%
95	780.39	Other convulsions	1,360	0.18%	69.34%
96	311	Depressive disorder, not elsewhere classified	1,353	0.18%	69.52%
97	343.9	Infantile cerebral palsy, unspecified	1,352	0.18%	69.71%
98	298.9	Nonorganic psychoses, unspecified psychosis	1,346	0.18%	69.89%
99	578.9	Hemorrhage of gastrointestinal tract, unspecified	1,344	0.18%	70.07%
100	716.94	Arthropathy, unspecified, hand	1,313	0.18%	70.24%



## Appendix F-Table 4 Most Frequently Observed Diagnoses: SLP Users

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	SLP Users (N)	Row Percent	Cumulative Percent
		All diagnoses	367,783		
1	787.2	Dysphagia	101,201	27.52%	27.52%
2	436	Acute, but ill-defined, cerebrovascular disease	22,411	6.09%	33.61%
3	V57.3	Speech therapy	12,630	3.43%	37.04%
4	781.2	Abnormality of gait	9,546	2.60%	39.64%
5	V57.1	Other physical therapy	7,724	2.10%	41.74%
6	331.0	Alzheimer's Disease	7,545	2.05%	43.79%
7	332.0	Parkinson's Disease, paralysis agitans	7,047	1.92%	45.71%
8	428.0	Congestive Heart Failure, unspecified	4,469	1.22%	46.92%
9	486	Pneumonia, unspecified	4,392	1.19%	48.12%
10	719.70	Difficulty in walking, site unspecified	4,384	1.19%	49.31%
11	799.3	Debility, unspecified	4,251	1.16%	50.46%
12	780.9	Other general symptoms	4,231	1.15%	51.61%
13	784.5	Other speech disturbance	4,039	1.10%	52.71%
14	290.0	Senile dementia, uncomplicated	3,964	1.08%	53.79%
15	438.0	Late effects of cerebrovascular disease, cognitive deficits	3,417	0.93%	54.72%
16	784.3	Aphasia	3,202	0.87%	55.59%
17	784.49	Other voice disturbance	3,105	0.84%	56.43%
18	728.2	Muscular wasting and disuse atrophy, not elsewhere classified	3,072	0.84%	57.27%
19	294.8	Other specific organic brain syndromes (chronic)	3,063	0.83%	58.10%
20	250.00	Type II diabetes mellitus without mention of complication	3,061	0.83%	58.94%
21	V57.89	Other care involving rehabilitation procedures, multiple training or therapy	2,944	0.80%	59.74%
22	401.9	Essential hypertension, unspecified	2,935	0.80%	60.53%
23	438.82	Late effects of cerebrovascular disease, dysphagia	2,661	0.72%	61.26%
24	820.8	Fracture of neck of femur, unspecified part of neck, closed	2,503	0.68%	61.94%
25	438.20	Late effects of cerebrovascular disease, hemiplegia affecting unspecified side	2,496	0.68%	62.62%
26	728.9	Unspecified disorder of muscle, ligament, and fascia	2,419	0.66%	63.27%
27	496	Chronic airway obstruction, not elsewhere classified	2,408	0.65%	63.93%
28	780.79	Other malaise and fatigue	2,377	0.65%	64.58%
29	599.0	Chronic pyelonephritis	2,180	0.59%	65.17%
30	438.9	Unspecified late effects of cerebrovascular disease	2,136	0.58%	65.75%
31	715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	1,974	0.54%	66.29%
32	781.92	Abnormal posture	1,875	0.51%	66.80%
33	507.0	Pneumonitis due to solids and liquids due to inhalation of food or vomitus	1,841	0.50%	67.30%
34	786.2	Cough	1,784	0.49%	67.78%
35	435.9	Unspecified transient cerebral ischemia	1,727	0.47%	68.25%
36	434.91	Cerebral artery occlusion, unspecified, with cerebral infarction	1,697	0.46%	68.71%
37	438.11	Late effects of cerebrovascular disease, aphasia	1,692	0.46%	69.17%
38	783.3	feeding difficulties and mismanagement	1,646	0.45%	69.62%
39	V57.21	Occupational therapy encounter	1,443	0.39%	70.01%
40	250.01	Type I Diabetes Mellitus without mention of complication	1,372	0.37%	70.38%
41	438.21	Late effects of cerebrovascular disease, hemiplegia affecting dominant side	1,300	0.35%	70.74%
42	781.3	Lack of coordination	1,291	0.35%	71.09%
43	340	Multiple sclerosis	1,282	0.35%	71.44%
44	724.2	Lumbago	1,152	0.31%	71.75%
45	438.89	Other late effects of cerebrovascular disease	1,123	0.31%	72.06%
46	530.81	Esophageal reflux	1,105	0.30%	72.36%
47	707.0	Decubitus ulcer	1,102	0.30%	72.66%
48	719.79	Difficulty in walking, multiple sites	1,034	0.28%	72.94%
49	438.22	Late effects of cerebrovascular disease, hemiplegia affecting non-dominant side	1,029	0.28%	73.22%

## Appendix F-Table 4 Most Frequently Observed Diagnoses: SLP Users (Cont.)

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	SLP Users (N)	Row Percent	Cumulative Percent
50	276.5	Disorders of fluid, electrolyte, and acid-base balance, volume depletion	1,026	0.28%	73.50%
51	718.44	Contracture of joint, hand	1,015	0.28%	73.77%
52	427.31	Atrial fibrillation	978	0.27%	74.04%
53	780.39	Other convulsions	929	0.25%	74.29%
54	414.00	Chronic ischemic heart disease of unspecified type of vessel	924	0.25%	74.54%
55	518.81	Acute respiratory failure	921	0.25%	74.79%
56	784.60	Symbolic dysfunction, unspecified	875	0.24%	75.03%
57	733.00	Osteoporosis, unspecified	844	0.23%	75.26%
58	298.9	Unspecified psychosis	839	0.23%	75.49%
59	342.90	Hemiplegia, unspecified type, unspecified side	831	0.23%	75.71%
60	780.2	Syncope and collapse	828	0.23%	75.94%
61	578.9	Hemorrhage of gastrointestinal tract, unspecified	798	0.22%	76.16%
62	729.9	Other and unspecified disorders of soft tissues	772	0.21%	76.37%
63	294.10	Dementia in conditions classified elsewhere without behavioral disturbance	764	0.21%	76.57%
64	431	Intracerebral hemorrhage	715	0.19%	76.77%
65	729.89	Other musculoskeletal symptoms referable to limbs	691	0.19%	76.96%
66	290.40	Arteriosclerotic dementia, uncomplicated	685	0.19%	77.14%
67	933.1	Foreign body in larynx, choking due to food/phlegm	683	0.19%	77.33%
68	311	Depressive disorder, not elsewhere classified	668	0.18%	77.51%
69	438.12	Late effects of cerebrovascular disease, dysphasia	665	0.18%	77.69%
70	335.20	Amyotrophic lateral sclerosis	651	0.18%	77.87%
71	784.69	Other symbolic dysfunction	622	0.17%	78.04%
72	161.9	Malignant neoplasm of larynx, unspecified	599	0.16%	78.20%
73	784.9	Other systems involving head and neck, choking sensation	597	0.16%	78.36%
74	343.9	Infantile cerebral palsy, unspecified	582	0.16%	78.52%
75	719.41	Pain in joint, shoulder region	572	0.16%	78.68%
76	718.49	Contracture of joint, multiple sites	565	0.15%	78.83%
77	715.09	Osteoarthritis, generalized, multiple sites	565	0.15%	78.98%
78	438.10	Late effects of cerebrovascular disease, speech and language deficit, unspecified	555	0.15%	79.13%
79	285.9	Anemia, unspecified	551	0.15%	79.28%
80	389.10	Sensorineural hearing loss, unspecified	548	0.15%	79.43%
81	038.9	Unspecified septicemia	544	0.15%	79.58%
82	290.10	Presenile dementia, uncomplicated	533	0.14%	79.73%
83	854.00	Intracranial injury of other and unspecified nature, without mention of open intracranial wound	531	0.14%	79.87%
84	716.90	Arthropathy, unspecified, site unspecified	530	0.14%	80.01%
85	781.99	Other symptoms involving nervous and musculoskeletal systems	526	0.14%	80.16%
86	820.21	Fracture of neck of femur, pertrochanteric, closed, intertrochanteric section	526	0.14%	80.30%
87	784.40	Voice disturbance, unspecified	525	0.14%	80.44%
88	478.5	Other diseases of vocal cords	495	0.13%	80.58%
89	478.30	Paralysis of vocal cords or larynx, unspecified	494	0.13%	80.71%
90	723.1	Cervicalgia	482	0.13%	80.84%
91	719.75	Difficulty in walking, pelvic region and thigh	460	0.13%	80.97%
92	729.5	Pain in limb	458	0.12%	81.09%
93	319	Unspecified mental retardation	454	0.12%	81.22%
94	715.00	Osteoarthritis, generalized, site unspecified	444	0.12%	81.34%
95	244.9	Unspecified acquired hypothyroidism	444	0.12%	81.46%
96	437.9	Unspecified cerebrovascular disease or lesion	442	0.12%	81.58%
97	719.76	Difficulty in walking, lower leg	428	0.12%	81.69%
98	443.9	Peripheral vascular disease, unspecified	411	0.11%	81.81%
99	784.41	Aphonia	410	0.11%	81.92%
100	780.4	Dizziness and giddiness	403	0.11%	82.03%

## Appendix F-Table 5 Most Frequently Observed Diagnoses: PT/SLP Users

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	PT/SLP Users (N)	Row Percent	Cumulative Percent
		All diagnoses	3,503,136		
1	V57.1	Other physical therapy	339,701	9.70%	9.70%
2	724.2	Lumbago	219,672	6.27%	15.97%
3	781.2	Abnormality of gait	117,260	3.35%	19.32%
4	787.2	Dysphagia	107,730	3.08%	22.39%
5	719.41	Pain in joint, shoulder region	87,551	2.50%	24.89%
6	723.1	Cervicalgia	80,907	2.31%	27.20%
7	719.46	Pain in joint, lower leg	77,844	2.22%	29.42%
8	436	Acute, but ill-defined, cerebrovascular disease	56,969	1.63%	31.05%
9	715.96	Osteoarthritis, unspecified whether generalized or localized, lower leg	45,430	1.30%	32.34%
10	729.5	Pain in limb	43,705	1.25%	33.59%
11	726.10	Disorders of bursae and tendons in shoulder region, not elsewhere classified	43,578	1.24%	34.84%
12	840.4	Sprains and strains, rotator cuff (capsule)	42,070	1.20%	36.04%
13	724.02	Spinal stenosis, other than cervical, lumbar region	41,374	1.18%	37.22%
14	719.45	Pain in joint, pelvic region and thigh	40,910	1.17%	38.39%
15	724.5	Backache, unspecified	40,824	1.17%	39.55%
16	715.16	Osteoarthritis, localized, primary, lower leg	37,813	1.08%	40.63%
17	722.52	Degeneration of lumbar or lumbosacral intervertebral disc	34,824	0.99%	41.62%
18	719.70	Difficulty in walking, site unspecified	33,551	0.96%	42.58%
19	724.4	Thoracic or lumbosacral neuritis or radiculitis, unspecified	33,267	0.95%	43.53%
20	847.2	Sprains and strains, lumbar	33,159	0.95%	44.48%
21	728.2	Muscular wasting and disuse atrophy, not elsewhere classified	30,816	0.88%	45.36%
22	847.0	Sprains and strains, neck	30,239	0.86%	46.22%
23	724.3	Sciatica	28,905	0.83%	47.05%
24	715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	28,341	0.81%	47.86%
25	726.0	Adhesive capsulitis of shoulder	27,245	0.78%	48.63%
26	728.9	Unspecified disorder of muscle, ligament, and fascia	25,793	0.74%	49.37%
27	728.71	Plantar fascial fibromatosis	24,056	0.69%	50.06%
28	726.2	Other affections of shoulder region, not elsewhere classified	23,947	0.68%	50.74%
29	332.0	Parkinson's Disease, paralysis agitans	23,690	0.68%	51.42%
30	799.3	Debility, unspecified	23,519	0.67%	52.09%
31	726.5	Enthesopathy of hip region	21,623	0.62%	52.70%
32	V43.65	Joint replacement, knee	21,153	0.60%	53.31%
33	780.79	Other malaise and fatigue	21,056	0.60%	53.91%
34	729.1	Myalgia and myositis, unspecified	20,428	0.58%	54.49%
35	721.3	Lumbosacral spondylosis without myelopathy	19,147	0.55%	55.04%
36	780.9	Other general symptoms	19,045	0.54%	55.58%
37	722.10	Displacement of lumbar intervertebral disc without myelopathy	18,590	0.53%	56.11%
38	V57.89	Other specified rehabilitation procedure, other	18,537	0.53%	56.64%
39	728.85	Spasm of muscle	18,343	0.52%	57.17%
40	721.0	Cervical spondylosis without myelopathy	17,798	0.51%	57.67%
41	428.0	Congestive heart failure, unspecified	17,320	0.49%	58.17%
42	820.8	Fracture of neck of femur, unspecified part, closed	16,618	0.47%	58.64%
43	719.47	Pain in joint, ankle and foot	16,587	0.47%	59.12%
44	723.4	Brachia neuritis or radiculitis NOS	16,514	0.47%	59.59%
45	331.0	Alzheimer's Disease	15,796	0.45%	60.04%
46	836.0	Tear of medial cartilage or meniscus of knee, current	15,756	0.45%	60.49%
47	496	Chronic airway obstruction, not elsewhere classified	14,817	0.42%	60.91%
48	722.4	Degeneration of cervical intervertebral disc	14,787	0.42%	61.33%
49	781.3	Lack of coordination	13,152	0.38%	61.71%
50	V57.3	Speech therapy	12,782	0.36%	62.07%
51	715.95	Osteoarthritis, unspecified whether generalized or localized, pelvic region and thigh	12,396	0.35%	62.43%

## Appendix F-Table 5 Most Frequently Observed Diagnoses: PT/SLP Users (Cont.)

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	PT/SLP Users (N)	Row Percent	Cumulative Percent
52	715.36	Osteoarthritis, localized, unspecified primary/ secondary, lower leg	12,362	0.35%	62.78%
53	780.4	Dizziness and giddiness	12,349	0.35%	63.13%
54	727.61	Complete rupture of rotator cuff, non-traumatic	12,194	0.35%	63.48%
55	846.0	Sprains and strains, lumbosacral (joint) (ligament)	12,079	0.34%	63.83%
56	354.0	Carpal tunnel syndrome	11,703	0.33%	64.16%
57	715.09	Osteoarthritis, generalized, multiple sites	11,401	0.33%	64.49%
58	724.00	Spinal stenosis, other than cervical, unspecified region	10,693	0.31%	64.79%
59	486	Pneumonia, organism unspecified	10,388	0.30%	65.09%
60	840.9	Sprains and strains, unspecified part of shoulder and upper arm	10,266	0.29%	65.38%
61	721.90	Spondylosis of unspecified site, without mention of myelopathy	10,190	0.29%	65.67%
62	724.1	Pain in thoracic spine	10,070	0.29%	65.96%
63	250.00	Type II Diabetes Mellitus or unspecified type, not stated as uncontrolled, without mention of complication	9,979	0.28%	66.24%
64	401.9	Essential hypertension, unspecified	9,836	0.28%	66.52%
65	715.15	Osteoarthritis, localized, primary, pelvic region and thigh	9,414	0.27%	66.79%
66	457.1	Other lymphadema	9,194	0.26%	67.06%
67	812.00	Fracture of humerus, upper end, unspecified part	9,115	0.26%	67.32%
68	719.79	Difficulty in walking, multiple sites	9,069	0.26%	67.57%
69	726.90	Enthesopathy of unspecified site, capsulitis, periarthritis, tendonitis	8,858	0.25%	67.83%
70	V57.21	Occupational therapy encounter	8,792	0.25%	68.08%
71	714.0	Rheumatoid arthritis	8,747	0.25%	68.33%
72	715.00	Osteoarthritis, generalized, site unspecified	8,628	0.25%	68.57%
73	844.9	Sprains and strains, knee and leg, unspecified site	8,583	0.25%	68.82%
74	733.00	Osteoporosis, unspecified	8,190	0.23%	69.05%
75	726.11	Calcifying tendonitis of shoulder	8,160	0.23%	69.29%
76	290.0	Senile dementia, uncomplicated	8,014	0.23%	69.52%
77	340	Multiple sclerosis	7,944	0.23%	69.74%
78	V43.64	Joint replacement, hip	7,865	0.22%	69.97%
79	726.71	Achilles bursitis and tendonitis	7,822	0.22%	70.19%
80	845.00	Sprains and strains, ankle, unspecified site	7,470	0.21%	70.40%
81	438.0	Late effects of cerebrovascular disease, cognitive deficits	7,366	0.21%	70.61%
82	438.20	Late effects of cerebrovascular disease, hemiplegia affecting unspecified side	7,203	0.21%	70.82%
83	812.20	Fracture of humerus, unspecified part	6,640	0.19%	71.01%
84	294.8	Other specified organic brain syndromes (chronic)	6,546	0.19%	71.20%
85	847.1	Sprains and strains, thoracic	6,512	0.19%	71.38%
86	707.0	Decubitus ulcer	6,437	0.18%	71.56%
87	722.6	Degeneration of intervertebral disc, site unspecified	6,434	0.18%	71.75%
88	715.91	Osteoarthritis, unspecified whether generalized or localized, shoulder region	6,421	0.18%	71.93%
89	782.3	Edema	6,391	0.18%	72.11%
90	719.76	Difficulty in walking, lower leg	6,326	0.18%	72.29%
91	719.75	Difficulty in walking, pelvic region and thigh	6,202	0.18%	72.47%
92	729.89	Other musculoskeletal symptoms referable to limbs, other	6,168	0.18%	72.65%
93	599.0	Urinary tract infection, site not specified	6,144	0.18%	72.82%
94	V72.83	Other specified preoperative examination	5,981	0.17%	72.99%
95	824.8	Fracture of ankle, unspecified, closed	5,885	0.17%	73.16%
96	438.9	Late effects of cerebrovascular disease, unspecified late effects of cerebrovascular disease	5,792	0.17%	73.33%
97	715.98	Osteoarthritis, unspecified whether generalized or localized, other specified sites	5,753	0.16%	73.49%
98	716.90	Arthropathy, unspecified, site unspecified	5,743	0.16%	73.66%
99	726.73	Calcaneal spur	5,695	0.16%	73.82%

## Appendix F-Table 6 Most Frequently Observed Diagnosis: Top 5% High Expenditure Therapy Users

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	Top 5% Therapy Users (N)	Row Percent	Cumulative Percent
		All diagnoses	187,436		
1	436	Acute, but ill-defined, cerebrovascular disease	10,316	0.28%	0.28%
2	781.2	Abnormality of gait	10,159	0.27%	0.55%
3	724.2	Lumbago	6,558	0.18%	0.72%
4	V57.1	Other physical therapy	5,688	0.15%	0.87%
5	787.2	Dysphagia	4,776	0.13%	1.00%
6	728.2	Muscular wasting and disuse atrophy, not elsewhere classified	4,239	0.11%	1.11%
7	719.70	Difficulty in walking, site unspecified	4,000	0.11%	1.22%
8	780.9	Other general symptoms	3,378	0.09%	1.31%
9	799.3	Debility, unspecified	3,072	0.08%	1.39%
10	332.0	Parkinson's Disease, paralysis agitans	3,037	0.08%	1.47%
11	728.9	Unspecified disorder of muscle, ligament, and fascia	2,809	0.07%	1.55%
12	719.46	Pain in joint, lower leg	2,642	0.07%	1.62%
13	719.41	Pain in joint, shoulder region	2,545	0.07%	1.69%
14	715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	2,443	0.07%	1.75%
15	428.0	Congestive Heart Failure, unspecified	2,199	0.06%	1.81%
16	820.8	Fracture of neck of femur, unspecified part, closed	2,048	0.05%	1.87%
17	780.79	Other malaise and fatigue	1,962	0.05%	1.92%
18	723.1	Cervicalgia	1,878	0.05%	1.97%
19	715.96	Osteoarthritis, unspecified if generalized or localized, lower leg	1,697	0.05%	2.01%
20	715.09	Osteoarthritis, generalized, multiple sites	1,590	0.04%	2.06%
21	V57.89	Other specified rehabilitation procedure, other	1,532	0.04%	2.10%
22	724.4	Thoracic or lumbosacral neuritis or radiculitis, unspecified	1,522	0.04%	2.14%
23	847.2	Sprains and strains, lumbar	1,520	0.04%	2.18%
24	726.10	Disorders of bursae and tendons in shoulder region, not elsewhere classified	1,520	0.04%	2.22%
25	840.4	Sprains and strains, rotator cuff (capsule)	1,520	0.04%	2.26%
26	729.5	Pain in limb	1,470	0.04%	2.30%
27	401.9	Essential hypertension, unspecified	1,448	0.04%	2.34%
28	438.0	Late effects of cerebrovascular disease, cognitive deficits	1,390	0.04%	2.37%
29	715.16	Osteoarthritis, localized, primary, lower leg	1,353	0.04%	2.41%
30	250.00	Type II diabetes mellitus or unspecified type, not stated as uncontrolled, without mention of complication	1,349	0.04%	2.45%
31	781.3	Lack of coordination	1,321	0.04%	2.48%
32	496	Chronic airway obstruction, not elsewhere classified	1,307	0.03%	2.52%
33	438.20	Late effects of cerebrovascular disease, hemiplegia affecting unspecified side	1,299	0.03%	2.55%
34	486	Pneumonia, organism unspecified	1,202	0.03%	2.58%
35	331.0	Alzheimer's Disease	1,196	0.03%	2.61%
36	724.02	Spinal stenosis, other than cervical, lumbar region	1,173	0.03%	2.65%
37	719.79	Difficulty in walking, multiple sites	1,149	0.03%	2.68%
38	724.5	Backache, unspecified	969	0.03%	2.70%
39	719.45	Pain in joint, pelvic region and thigh	961	0.03%	2.73%
40	847.0	Sprains and strains, neck	944	0.03%	2.75%
41	V43.65	Joint replacement, knee	923	0.02%	2.78%
42	438.21	Late effects of cerebrovascular disease, hemiplegia affecting dominant side	903	0.02%	2.80%
43	723.4	Brachia neuritis or radiculitis NOS	900	0.02%	2.83%
44	715.00	Osteoarthritis, generalized, site unspecified	899	0.02%	2.85%
45	438.9	Late effects of cerebrovascular disease, unspecified late effects of cerebrovascular disease	883	0.02%	2.87%
46	726.0	Adhesive capsulitis of shoulder	861	0.02%	2.90%
47	707.0	Decubitus ulcer	847	0.02%	2.92%
48	340	Multiple sclerosis	823	0.02%	2.94%
49	V57.21	Occupational therapy encounter	811	0.02%	2.96%
50	438.22	Late effects of cerebrovascular disease, hemiplegia affecting non-dominant side	779	0.02%	2.98%

Appendix F – Part B Therapy Users CY 2002: Most Frequently Observed Diagnoses Tables-Volume Ranking  
Utilization Analysis: High Expenditure Users of Outpatient Therapy Services CY 2002: Beneficiary Characteristics

Outpatient Rehabilitation Services Payment System Evaluation Contract

Task Order # 500-99-0009/0009

Deliverable # 7 Analysis of Costliest Top 5% Report-Final

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## Appendix F-Table 6 Most Frequently Observed Diagnosis: Top 5% High Expenditure Therapy Users (Cont.)

ICD-9 Frequency Rank	ICD-9 Code	Diagnosis Description	Top 5% Therapy Users (N)	Row Percent	Cumulative Percent
51	844.9	Sprains and strains, knee and leg, unspecified site	757	0.02%	3.00%
52	599.0	Urinary tract infection, site not specified	756	0.02%	3.02%
53	250.01	Type I Diabetes Mellitus, not stated as uncontrolled, without mention of complication	664	0.02%	3.04%
54	434.91	Cerebral artery occlusion, unspecified, with cerebral infarction	656	0.02%	3.06%
55	722.52	Degeneration of lumbar or lumbosacral intervertebral disc	656	0.02%	3.08%
56	733.00	Osteoporosis, unspecified	639	0.02%	3.09%
57	290.0	Senile dementia, uncomplicated	639	0.02%	3.11%
58	840.9	Sprains and strains, unspecified part of shoulder and upper arm	635	0.02%	3.13%
59	781.92	Abnormal posture	613	0.02%	3.14%
60	812.00	Fracture of humerus, upper end, unspecified part	610	0.02%	3.16%
61	721.3	Lumbosacral spondylosis without myelopathy	607	0.02%	3.18%
62	727.61	Complete rupture of rotator cuff, non-traumatic	604	0.02%	3.19%
63	812.20	Fracture of humerus, unspecified part	602	0.02%	3.21%
64	342.90	Hemiplegia, unspecified	591	0.02%	3.22%
65	719.75	Difficulty in walking, pelvic region and thigh	574	0.02%	3.24%
66	716.90	Arthropathy, unspecified, site unspecified	568	0.02%	3.26%
67	729.89	Other musculoskeletal symptoms referable to limbs, other	567	0.02%	3.27%
68	820.21	Fracture of neck of femur, pertrochanteric, closed, intertrochanteric section	558	0.01%	3.29%
69	724.3	Sciatica	558	0.01%	3.30%
70	719.76	Difficulty in walking, lower leg	557	0.01%	3.31%
71	729.1	Myalgia and myositis, unspecified	536	0.01%	3.33%
72	714.0	Rheumatoid arthritis	518	0.01%	3.34%
73	722.10	Displacement of lumbar intervertebral disc without myelopathy	511	0.01%	3.36%
74	457.1	Other lymphadema	504	0.01%	3.37%
75	294.8	Other specified organic brain syndromes (chronic)	501	0.01%	3.38%
76	726.2	Other affections of shoulder region, not elsewhere classified	497	0.01%	3.40%
77	728.85	Spasm of muscle	488	0.01%	3.41%
78	438.89	Late effects of cerebrovascular disease, unspecified late effects of cerebrovascular disease	485	0.01%	3.42%
79	435.9	Unspecified transient cerebral ischemia	484	0.01%	3.44%
80	721.0	Cervical spondylosis without myelopathy	465	0.01%	3.45%
81	784.3	Aphasia	452	0.01%	3.46%
82	V57.3	Speech therapy	442	0.01%	3.47%
83	715.36	Osteoarthritis, localized, unspecified whether primary or secondary, lower leg	419	0.01%	3.48%
84	414.00	Other forms of ischemic heart disease, of unspecified type of vessel, native or graft	415	0.01%	3.49%
85	846.0	Sprains and strains, lumbosacral (joint) (ligament)	403	0.01%	3.50%
86	443.9	Peripheral vascular disease, unspecified	400	0.01%	3.52%
87	726.5	Enthesopathy of hip region	395	0.01%	3.53%
88	729.9	Other and unspecified disorders of soft tissue	392	0.01%	3.54%
89	724.00	Spinal stenosis, other than cervical, unspecified region	376	0.01%	3.55%
90	821.00	Fracture of unspecified part of femur	375	0.01%	3.56%
91	715.95	Osteoarthritis, unspecified whether generalized or localized, pelvic region and thigh	373	0.01%	3.57%
92	V43.64	Joint replacement, hip	367	0.01%	3.58%
93	427.31	Atrial fibrillation	365	0.01%	3.59%
94	718.44	Contracture of joint, hand	358	0.01%	3.60%
95	721.90	Spondylosis of unspecified site, without mention of myelopathy	351	0.01%	3.60%
96	726.60	Enthesopathy of knee, unspecified	347	0.01%	3.61%
97	518.81	Acute respiratory failure	345	0.01%	3.62%
98	715.15	Osteoarthritis, localized, primary, pelvic region and thigh	338	0.01%	3.63%
99	726.11	Calcifying tendonitis of shoulder	332	0.01%	3.64%
100	780.2	Syncope and collapse	321	0.01%	3.65%