Incidence of Serious Infections and Design of Utilization and Safety Studies for Biologic and Biosimilar Surveillance

Jie Zhang, PhD; Gayathri Sridhar, PhD; Charles E. Barr, MD, MPH; Bernadette Eichelberger, PharmD; Catherine M. Lockhart, PharmD, PhD; James Marshall, MPH; Jerry Clewell, PharmD, MBA; Neil A. Accortt, PhD; Jeffrey R. Curtis, MD, MS, MPH; Cynthia Holmes, PharmD, MS; Cheryl N. McMahon-Walraven, PhD; Jeffrey S. Brown, PhD; and Kevin Haynes, PharmD, MSCE

ABSTRACT

BACKGROUND: There is a need for postmarketing evidence generation for novel biologics and biosimilars.

OBJECTIVE: To assess the feasibility, strengths, and limitations of the Biologics and Biosimilars Collective Intelligence Consortium (BBCIC) Distributed Research Network (DRN) to examine the utilization and comparative safety of immune-modulating agents among patients with autoimmune diseases.

METHODS: We conducted a retrospective cohort study among patients enrolled in health insurance plans participating in the BBCIC DRN between January 1, 2006, and September 30, 2015. Eligible patients were adult (≥ 18 years) new users of a disease-modifying nonbiologic and/or biologic agent with a prior diagnosis of rheumatoid arthritis (RA), other inflammatory conditions (psoriasis, psoriatic arthritis, ankylosing spondylitis), or inflammatory bowel disease (IBD). Follow-up started at treatment initiation and ended at the earliest of outcome occurrence (serious infection); treatment discontinuation; or switching, death, disenrollment, or end of study period. The study leveraged the FDA Sentinel System infrastructure for data management and analysis; descriptive statistics of patient characteristics and unadjusted incidence rates of study outcomes during follow-up were calculated.

RESULTS: Eligible patient drug episodes included 111,611 with RA (75% female), 61,050 with other inflammatory conditions (51% female), and 30,628 with IBD (52% female). Across all 3 cohorts, approximately half of the patient drug episodes initiated a biologic (50% in RA; 60% in psoriasis, psoriatic arthritis, ankylosing spondylitis; and 55% in IBD). The crude incidence rate of serious infection was 9.8 (9.5-10.0) cases per 100 person-years in RA, 7.1 (6.8-7.5) in other inflammatory conditions, and 14.2 (13.6-14.8) in IBD patients.

CONCLUSIONS: This study successfully identified large numbers of new users of biologics and produced results that were consistent with those from earlier published studies. The BBCIC DRN is a potential resource for surveillance of biologics.

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What is already known about this subject

- There is a need for postmarketing evidence generation for novel biologics and biosimilars.
- The Biologics and Biosimilars Collective Intelligence Consortium (BBCIC) is a multistakeholder nonprofit public service initiative dedicated to providing scientific evidence on the comparative safety and effectiveness of biosimilars and novel biologics.
- The BBCIC Distributed Research Network (DRN) consists of U.S. commercial health plans that participate in the FDA Sentinel System, thus enabling BBCIC to conduct claims-based research specific to biologics using the Sentinel common data model and analytic tools.

What this study adds

- This study demonstrates the strengths of the BBCIC DRN for active surveillance of biologics.
- This study identifies methodologic challenges and limitations of the BBCIC DRN and develops recommendations for improving the design and conduct of future comparative safety/effectiveness studies of biologics.

In March 2015, the U.S. Food and Drug Administration (FDA) approved the first biosimilar (filgrastim-sndz, Zarxio) for all indications of the reference biologic.¹ As of January 2019, the FDA has approved 17 biosimilars, which include biosimilars for widely used biologics such as adalimumab (Humira), etanercept (Enbrel), and infliximab (Remicade) that are indicated for the treatment of several autoimmune inflammatory conditions.^{2,3} The availability of biosimilars offers physicians and patients choice in biologic therapies, with potential for cost savings, even though actual savings are contingent on numerous factors and are yet to be evaluated empirically in the United States.^{4,5}

All FDA-approved biosimilars are required to be “highly similar” and have “no clinically meaningful differences from the reference product in terms of safety, purity, and potency (safety and effectiveness).”⁶ However, the population included in pre-approval clinical trials may not be large or heterogeneous enough to identify and assess rare but potentially serious adverse effects. Therefore, it is important to engage in

postmarketing safety monitoring and evaluation of approved biologics.⁷ Further, the evidence generated through postmarketing comparative utilization and safety studies of biosimilars and reference biologics may help ensure the safety and effectiveness of a biosimilar and instill health care provider and patient confidence in these products.^{8,9}

The Biologics and Biosimilars Collective Intelligence Consortium (BBCIC) is a nonprofit public service initiative dedicated to providing scientific evidence on the comparative safety and effectiveness of biosimilars and reference biologics, with participants from managed care organizations, integrated delivery systems, pharmacy benefit management firms, research institutions, and pharmaceutical companies.^{10,11} The BBCIC's Distributed Research Network (DRN) consists of geographically diverse U.S. commercial, including Medicare Advantage, health plans that also participate in the FDA Sentinel System, thus enabling BBCIC to conduct claims-based research specific to biologics using the Sentinel common data model and analytic tools.^{12,13}

To evaluate the potential capability of the BBCIC DRN for future study of biosimilar use and safety, we conducted a study among patients with select autoimmune conditions that are commonly managed with anti-inflammatory biologics, such as anti-tumor necrosis factor (TNF) alpha antagonists.¹⁴⁻¹⁹ These biologics reduce disease activity and systemic inflammation, improve quality of life, and, when initiated early in the disease course, can effectively improve the prognosis of these patients.¹⁴⁻²⁰ However, these agents have also been associated with increased risk of developing serious infections in some studies, but not others.²¹⁻²⁴ Because serious infection is a relatively uncommon adverse event (AE), an abundance of published safety data come from analyses of administrative claims from large populations.²³⁻²⁸

The present study focused on determining whether the BBCIC DRN (a) provides sufficient sample size and exposed follow-up time and (b) contains key data elements needed to ascertain exposure to biologics, define disease-based cohorts, and identify study outcomes.

Methods

Study Design and Population

We conducted a retrospective cohort study using curated data from the BBCIC DRN held in the Sentinel common data model format. The study population included individuals enrolled in one of the participating plans during the study period between January 1, 2006, and September 30, 2015. We identified all new users of a conventional or biologic disease-modifying anti-inflammatory agent (Appendix A, available in online article) during the study period. New user patient episodes were defined as patients who initiated such an agent without any previous use in the prior 365 days. The date of treatment initiation was defined as the index date, and the 365 days preceding

the index date was defined as the baseline period. In addition, eligible patient episodes were required to satisfy the following inclusion criteria: (a) a diagnosis of rheumatoid arthritis (RA), psoriasis, psoriatic arthritis, ankylosing spondylitis, ulcerative colitis, or Crohn disease identified from physician encounters any time prior to treatment initiation; (b) at least 18 years of age at the time of treatment initiation; and (c) at least 12 months of continuous medical and pharmacy coverage prior to treatment initiation. Follow-up started on the index date and ended at the earliest of the following: occurrence of outcome (e.g., hospitalized infection, described in detail below), treatment discontinuation or switching (described in detail below), disenrollment (which may indicate health plan change or death), or end of the study period.

Three cohorts of patient episodes were assembled based on disease diagnosis, which included: (a) RA; (b) psoriasis, psoriatic arthritis, and ankylosing spondylitis; and (c) ulcerative colitis and Crohn disease, collectively referred to as inflammatory bowel disease (IBD). All analyses were conducted independently within each cohort. A patient diagnosed with multiple autoimmune conditions may be included in more than one cohort. Additionally, prior use of methotrexate in the baseline period was required for patients in the RA cohort to create a more homogeneous cohort of patients who failed their initial methotrexate therapy. Patients were excluded from the analyses if they (a) ever had nonmelanoma skin cancer based on all available data, (b) had an immune-compromising condition (organ transplantation, HIV, advanced kidney/liver disease) based on all available data, or (c) had a serious infection any time during the 183-day period before the index date. Patients were censored if they developed an immune-compromising condition during follow-up.

Medication Exposure and Covariates

The medications of interest included anti-TNF biologics (adalimumab, certolizumab, etanercept, golimumab, infliximab), non-TNF biologics (abatacept, natalizumab, rituximab, tocilizumab, ustekinumab, vedolizumab), the oral Janus kinase inhibitor (tofacitinib), and nonbiologic disease-modifying agents (azathioprine, hydroxychloroquine, leflunomide, methotrexate, sulfasalazine, and 6-mercaptopurine). Biologics (e.g., secukinumab) approved close to the end of the study period (September 30, 2015) were not included, as it was unlikely that there would be sufficient numbers of new users to conduct the intended analysis. Appendix A presents medications examined in each of the 3 cohorts, as not all the medications are approved for all the conditions.

Exposure to the medications was ascertained based on Healthcare Common Procedure Coding System (HCPCS) codes for infused medications and National Drug Code (NDC) numbers for pharmacy-dispensed medications. Because HCPCS codes do not have a built-in days supply, the dosing interval

FIGURE 1 Study Flow for Each Drug Cohort**A. RA CONSORT Diagram** **B. PsO, PsA, and AS CONSORT Diagram**

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FIGURE 1 Study Flow for Each Drug Cohort (*continued*)**C. IBD CONSORT Diagram**

^aExclusion episodes based on claim in query period, episode incident, and pre-index enrollment criterion.

^bExclusions based on nonmelanoma cancer, immunocompromising conditions, and serious infection code lists.

AS = ankylosing spondylitis; CONSORT = Consolidated Standards of Reporting Trials; IBD = inflammatory bowel disease; PsA = psoriatic arthritis; PsO = psoriasis; RA = rheumatoid arthritis.

provided on the FDA-approved label was applied to impute the days supply and determine exposure status during follow-up. For example, patient episodes were considered to be exposed for 56 days after receiving an infliximab infusion.

Because a biologic may be used as monotherapy or in combination with 1 or more nonbiologic disease-modifying medications, patient episodes were classified into 1 of 3 mutually exclusive categories on the index date: (a) initiated any anti-TNF biologic (regardless of nonbiologic use); (b) initiated any non-TNF antagonist biologics (regardless of nonbiologic use, RA only [Appendix A]); and (c) initiated any nonbiologic disease-modifying agents (no biologic use). Only the first patient episode was used in the outcome ascertainment analyses. During follow-up, treatment episodes were truncated when a patient episode switched within (from one anti-TNF biologic to another) or between the categories (step up from nonbiologic to biologic).

Age, sex, and calendar year of treatment initiation were ascertained on the index date. Other covariates ascertained during the 183-day period before the index date included oral glucocorticoid use, comorbidities (Charlson Comorbidity Index

and individual components of the index), and health services use (e.g., numbers of inpatient visits, distinct classes of medications prescribed).

Outcomes

The study included 2 safety outcomes: serious infection and pneumonia. Serious infection was defined as incident cases of infection that required an emergency department (ED) visit or hospitalization. Cases were identified based on the presence of a discharge diagnosis code for infection of the respiratory tract, skin and soft tissue, genitourinary tract, gastrointestinal tract, or central nervous system or septicemia/sepsis. Pneumonia was defined as incident cases of pneumonia that required an ED visit or hospitalization and were identified based on a discharge diagnosis code for pneumonia from an ED visit or hospitalization.

Statistical Analysis

This study leveraged the FDA Sentinel System infrastructure, including the common data model, Sentinel-curated data (common data model v6.0.2), and modular programs for data

TABLE 1 Baseline Patient Characteristics, by Disease Cohort and by Therapy Class^a

All Therapies	Anti-TNF Biologic		Non-TNF Biologic		Nonbiologic	
Rheumatoid arthritis (n = 115,118)						
Total treated N = 115,118	n = 35,926		n = 25,737		n = 53,455	
Age, mean, SD	51	13.1	60.7	13.8	54	13.6
Age groups, years, n (%)						
18-49	15,671	(43.6)	5,384	(20.9)	19,458	(36.4)
50-64	15,986	(44.5)	10,883	(42.3)	23,760	(44.4)
65-79	3,757	(10.5)	7,157	(27.8)	8,462	(15.8)
80+	512	(1.4)	2,313	(9.0)	1,775	(3.3)
Gender, n (%)						
Female	24,353	(67.8)	14,940	(58.0)	40,681	(76.1)
Male	11,573	(32.2)	10,797	(42.0)	12,774	(23.9)
CCI, mean, SD	0.3	(1.0)	1.5	(2.0)	0.4	(1.2)
Health services utilization, mean, SD						
Ambulatory encounters	10.6	(8.7)	14.6	(10.9)	10.8	(9.4)
ED encounters	0.1	(0.4)	0.1	(0.5)	0.1	(0.5)
Inpatient hospital encounters	0.0	(0.2)	0.1	(0.5)	0.0	(0.2)
Nonacute institutional encounters	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
Other ambulatory encounters	2.9	(4.6)	3.6	(5.5)	2.9	(5.0)
Filled prescriptions	21.1	(16.1)	18.7	(16.5)	18.3	(15.6)
Unique medical products	7.9	(5.0)	7.7	(5.3)	7.3	(4.9)
Unique drug classes	7.5	(4.6)	7.4	(5.0)	7.0	(4.6)
Psoriasis, psoriatic arthritis, ankylosing spondylitis (n = 60,700)						
Total treated N = 60,700	Total n = 26,812				Total n = 33,888	
Age, mean, SD	48.0	(13.4)			53.6	(14.3)
Age groups, years, n (%)						
18-49	14,347	(53.5)			13,140	(38.8)
50-64	10,102	(37.7)			13,956	(41.2)
65-79	2,103	(7.8)			5,520	(16.3)
80+	260	(1.0)			1,272	(3.8)
Gender, n (%)						
Female	13,429	(50.1)			19,851	(58.6)
Male	13,383	(49.9)			14,037	(41.4)
CCI, mean, SD	0.3	(1.0)			0.7	(1.8)
Health services utilization, mean, SD						
Ambulatory encounters	9.9	(9.2)			11.5	(11.1)
ED encounters	0.1	(0.4)			0.1	(0.5)
Inpatient hospital encounters	0.0	(0.2)			0.1	(0.4)
Nonacute institutional encounters	0.0	(0.1)			0.0	(0.1)
Other ambulatory encounters	2.5	(4.7)			3.0	(5.6)
Filled prescriptions	16.9	(15.3)			17.3	(15.5)
Unique medical products	6.8	(4.9)			7.2	(5.0)
Unique drug classes	6.3	(4.6)			6.8	(4.7)

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management and analysis.¹³ Specifically, cohort identification and descriptive analysis (Cohort ID and Descriptive Analysis v5.0.3) Level-1 queries (created using SAS version 9.4 [SAS Institute, Cary, NC]) were executed to identify the cohorts, ascertain exposures and outcomes, and produce unadjusted incidence rates.²⁹ Descriptive statistics (mean [standard deviation], number [percentage]) of patient characteristics ascertained during baseline or on the index date were calculated (before implementation of the exclusion due to nonmelanoma

cancer). Crude incidence rates and 95% confidence intervals of serious infection and pneumonia during follow-up were calculated, stratified by categories of medications initiated (defined above: nonbiologic disease-modifying agents, anti-TNF biologics, and non-TNF biologics). Crude incidence rates are reported as observed, without adjustment for potential confounding variables such as oral glucocorticoid use. Data analyses were performed separately for each of the 3 cohorts. Codes used to identify exposure and outcome and to

TABLE 1 Baseline Patient Characteristics, by Disease Cohort and by Therapy Class^a (continued)

All Therapies	Anti-TNF Biologic		Non-TNF Biologic		Nonbiologic	
Inflammatory bowel disease (n = 32,938)						
Total treated N = 32,938	Total n = 16,503				Total n = 16,435	
Age, mean, SD	44.6	(15.5)			44.7	(15.4)
Age groups, years, n (%)						
18-49	10,154	(61.5)			10,143	(61.7)
50-64	4,789	(29.0)			4,718	(28.7)
65-79	1,362	(8.3)			1,370	(8.3)
80+	198	(1.2)			204	(1.2)
Gender, n (%)						
Female	10,154	(61.5)			10,143	(61.7)
Male	4,789	(29.0)			4,718	(28.7)
CCI, mean, SD	0.6	(1.2)			0.6	(1.4)
Health services utilization, mean, SD						
Ambulatory encounters	10.7	(8.6)			14.2	(9.9)
ED encounters	0.2	(0.6)			0.2	(0.7)
Inpatient hospital encounters	0.2	(0.5)			0.1	(0.4)
Nonacute institutional encounters	0	(0)			0	(0.1)
Other ambulatory encounters	3.1	(4.9)			4	(6.8)
Filled prescriptions	17.5	(15)			19.7	(16.1)
Unique medical products	7.1	(4.9)			7.7	(5)
Unique drug classes	6.9	(4.6)			7.6	(4.8)

^aAmong patients satisfy all inclusion/exclusion criteria except for exclusion due to non-melanoma cancer.

CCI = Charlson Comorbidity Index; ED = emergency department; TNF = tumor necrosis factor; SD = standard deviation.

implement inclusion and exclusion criteria are available in Appendix B (available in online article).

Results

Figure 1 shows a study flow for each drug cohort of interest within each clinical condition of interest. We identified 3 large cohorts of patient drug episodes, including 111,611 patient episodes with RA (75% female; Figure 1A); 61,050 with psoriasis, psoriatic arthritis, ankylosing spondylitis (51% female; Figure 1B); and 30,628 with IBD (52% female; Figure 1C). Across all 3 cohorts, patients between 18 and 64 years of age accounted for more than 85% of the total population. Approximately half of the patients initiated a biologic (50% in RA; 60% in psoriasis, psoriatic arthritis, ankylosing spondylitis; and 55% in IBD patients). Among RA patients, we identified a total of 1,512 tofacitinib new patient episodes. Because we expected very low numbers of patients with either study outcome, tofacitinib new users were not included in the analyses to assess crude incidence rates. Details of patient baseline characteristics are presented in Table 1.

Patients in the 3 cohorts (RA; psoriasis, psoriatic arthritis, ankylosing spondylitis; IBD) contributed a total of 47,580, 22,076, and 15,251 person-years (PYs) of exposed follow-up time, respectively, to the analysis of serious infection. The overall estimated incidence rate of serious infection was 9.8 (95% confidence interval [CI] = 9.5-10.0) cases per 100 PYs in

RA; 7.1 (CI = 6.8-7.5) in psoriasis, psoriatic arthritis, and ankylosing spondylitis; and 14.2 (CI = 13.6-14.8) in IBD patients. When stratified by age, numerically higher incidence rates were observed in older age groups, and a gradient was observed across 3 cohorts and across all treatment categories (Table 2).

Different from serious infection, the highest incidence rate of pneumonia was observed in RA patients (1.6 cases per 100 PYs; CI = 1.5-1.7); followed by patients with IBD (1.3 cases per 100 PYs; CI = 1.1-1.5); and lowest in patients with psoriasis, psoriatic arthritis, or ankylosing spondylitis (0.8 cases per 100 PYs; CI = 0.7-0.9; Table 3). Again, consistently across diagnosis and treatment, numerically higher incidence rates were observed among older patients compared with younger ones.

Discussion

This study describes the utilization of biologic and nonbiologic anti-inflammatory agents and unadjusted rates of serious infection and pneumonia in 3 cohorts of patients with autoimmune diseases. This study also identifies strengths and limitations of the BBCIC DRN, along with methodologic challenges and recommendations for improving design and conduct of future comparative safety/effectiveness studies of biologics.

First, this descriptive analysis demonstrates that the BBCIC DRN provides a sufficiently large sample size and follow-up time to examine relatively uncommon AEs in patient populations and subgroups of interest. For instance, pneumonia is an

TABLE 2 Incidence Rates of Serious Infection, Overall and Stratified

	Rheumatoid Arthritis				Psoriasis, Psoriatic Arthritis, Ankylosing Spondylitis				Inflammatory Bowel Disease			
	Events, n	PYs, n	IR	95% CI	Events, n	PYs, n	IR	95% CI	Events, n	PYs, n	IR	95% CI
Overall	4,649	47,580	9.8	9.5-10.0	1,577	22,076	7.1	6.8-7.5	2,169	15,251	14.2	13.6-14.8
Anti-TNF biologics	1,974	22,057	8.9		912	13,423	6.8		1,192	8,000	14.9	
Age, in years												
18-49	726	9,730	7.5		452	7,864	5.7		807	5,734	14.1	
50-64	821	9,945	8.3		362	4,868	7.4		290	1,958	14.8	
65-79	355	2,176	16.3		87	654	13.3		81	287	28.2	
80+	72	205	35.1		11	37	29.4		14	21	67.2	
Gender												
Female	1,349	14,082	9.6		460	5,444	8.4		643	4,065	15.8	
Male	625	7,975	7.8		452	7,979	5.7		549	3,935	14.0	
Non-TNF biologics	648	5,137	12.6									
Age, in years												
18-49	146	1,608	9.1									
50-64	248	2,323	10.7									
65-79	204	1,048	19.5									
80+	50	158	31.7									
Gender												
Female	507	4,095	12.4									
Male	141	1,041	13.5									
Nonbiologics	2,027	20,386	9.9		665	8,652	7.7		977	7,251	13.5	
Age, in years												
18-49	555	7,310	7.6		205	3,799	5.4		577	4,793	12.0	
50-64	799	9,441	8.5		288	3,702	7.8		296	2,007	14.8	
65-79	530	3,094	17.1		139	1,027	13.5		86	420	20.5	
80+	143	542	26.4		33	124	26.6		18	30	59.9	
Gender												
Female	1,512	15,643	9.7		413	4,463	9.3		484	3,421	14.1	
Male	515	4,743	10.9		252	4,189	6.0		493	3,829	12.9	

CI=confidence interval; IR=incidence rate; PY=person-year; TNF=tumor necrosis factor.

infrequent AE, which occurred at crude incidence rates of 0.8-1.6 cases per 100 PYs across the 3 cohorts in this study. Still, the large size of the BBCIC DRN enabled the identification of 50,106, 22,819, and 16,377 PYs of exposed follow-up time and 792, 187, and 214 incident cases of pneumonia among patients with RA; psoriasis, psoriatic arthritis, or ankylosing spondylitis; and IBD, respectively. The BBCIC DRN also contains adequately detailed data elements to characterize the study populations that included comorbidities and use of prescription medications and other health services. These measures have the potential to serve as proxies of RA severity, health status, and health-seeking behavior that may be included as potential confounders to be adjusted for in future studies.

The crude incidence rates of serious infection among patients in the RA and IBD cohorts initiating an anti-TNF agent in the present study were numerically higher (8.9 and 14.9 per 100 PYs, respectively) than the crude rates reported in a similar study by Grijalva et al. (2011; 8.2 and 10.9 per 100 PYs, respectively).²³ This is likely due to differences in how

outcomes are defined: the present study identified serious infections from both ED visits and hospitalizations and included both principal and secondary diagnoses, whereas the Grijalva study only included the principal diagnosis from hospitalizations.²³ Likewise, the unadjusted crude incidence rate of serious infection among RA patients aged 65 years or older in the present study was 18.7 per 100 PYs (1,354 cases; 7,223 PYs), which is qualitatively higher than the risk estimates reported among elderly RA patients (e.g., 13.1-18.7 per 100 PYs) with Medicare coverage.²¹

Another key strength of the BBCIC DRN is the ability to leverage the Sentinel infrastructure for data management and analysis, including the common data model and analytic tools, which were developed to support active postmarketing drug safety surveillance.¹³ This approach offered significant computational efficiency to conduct multidatabase studies, as it allowed rapid local execution of centrally developed modular programs concurrently by multiple data partners using the curated data in the common data model format.³⁰ This study

TABLE 3 Incidence Rates of Pneumonia, Overall and Stratified

	Rheumatoid Arthritis				Psoriasis, Psoriatic Arthritis, Ankylosing Spondylitis				Inflammatory Bowel Disease			
	Events, n	PYs, n	IR	95% CI	Events, n	PYs, n	IR	95% CI	Events, n	PYs, n	IR	95% CI
Overall	792	50,106	1.6	1.5-1.7	187	22,829	0.8	0.7-0.9	214	16,377	1.3	1.1-1.5
Anti-TNF biologics	342	23,196	1.5		98	13,939	0.7		114	8,648	1.3	
Age, in years												
18-49	71	10,156	0.7		36	8,114	0.4		57	6,149	0.9	
50-64	160	10,406	1.5		49	5,080	1.0		42	2,135	2.0	
65-79	84	2,411	3.5		12	704	1.7		14	333	4.2	
80+	27	224	12.1		<10	41			<10	32		
Gender												
Female	226	14,850	1.5		44	5,689	0.8		62	4,413	1.4	
Male	116	8,345	1.4		54	8,251	0.7		52	4,235	1.2	
Non-TNF biologics	111	5,464	2.0									
Age, in years												
18-49	20	1,661	1.2									
50-64	43	2,453	1.8									
65-79	33	1,163	2.8									
80+	15	187	8.0									
Gender												
Female	82	4,348	1.9									
Male	29	1,115	2.6									
Nonbiologics	339	21,446	1.6		89	8,890	1.0		100	7,728	1.3	
Age, in years												
18-49	48	7,571	0.6		21	3,863	0.5		47	5,045	0.9	
50-64	127	9,862	1.3		36	3,804	0.9		36	2,161	1.7	
65-79	121	3,406	3.6		26	1,087	2.4		13	486	2.7	
80+	43	608	7.1		<10	137			<10	37		
Gender												
Female	244	16,427	1.5		52	4,609	1.1		39	3,666	1.1	
Male	95	5,019	1.9		37	4,281	0.9		61	4,062	1.5	

CI=confidence interval; IR=incidence rate; PY=person-year; TNF=tumor necrosis factor.

also leveraged the Sentinel Operation Center query-specifications document to communicate study design and operational details in a standardized format that enables reliable replication. Thus, it is critical that the specifications are developed thoughtfully and appropriately tailored for the specific needs of each project.

Because of the complexity and importance of these tools, we recommend that research teams be trained on the Sentinel infrastructure to obtain an in-depth understanding of the common data model structure, the capability of the analytic tools, and the specifications document. As previously reported, we recommend a phased approach in which results from a test database or one data partner are reviewed by the investigators before executing the analytic programs across all data partners.³¹ This approach allows the investigators to revise the study design, if necessary, and thus avoid executing analytic programs multiple times across all data partners, which requires significant effort and resources. For example, our research team worked closely to determine the allowable gap

to bridge self-injectable biologics given that HCPCS codes in a medical procedure table do not contain an adjudicated days supply field found in pharmacy-dispensing tables. Finally, an analyst with detailed knowledge of the Sentinel data model and analytic tools is an invaluable resource who can also offer insights from experience that further ensure the successful implementation of a study.

Limitations

We identified study limitations in our ability to conduct biologic and biosimilar surveillance. In the present study, new users are defined as those new to the entire class of study medications (e.g., anti-TNF biologic) and not just the specific cohort-defining medication (e.g., etanercept). As this was a feasibility assessment of the BBCIC DRN to address biologic and biosimilar surveillance, future work will need to be conducted at the medication and manufacturer level. The research team made the decision to avoid selection bias related to medication effects common to the class. For instance, a patient may be

selected to initiate rituximab versus another anti-TNF biologic if the patient experienced a severe injection site reaction to a previous anti-TNF biologic.

Given that biosimilar initiators are likely to include patients who have switched from the reference biologic, how to handle switching and compare switchers to those who opt to remain on the reference biologic is of critical importance to the biosimilar research study design.³² For example, patients who switched to a biosimilar from a reference biologic to comply with a formulary decision may be different from patients who switched from a structurally unrelated biologic with regard to their baseline risk of developing an AE. These 2 scenarios of switching to a biosimilar may yield very different safety results, and it would be useful if these different scenarios are captured.

Another methodologic challenge that affects all biologics (including biosimilars) is that a specific HCPCS code that uniquely identifies the medication is usually not assigned until the beginning of the following calendar year after FDA approval. Our study did not utilize these nonspecific codes. Additionally, unique to biosimilars, since 2016, the Centers for Medicare and Medicaid Services (CMS) assigned the same HCPCS code to biosimilars of the same reference biologic and used modifiers to identify the manufacturers of the biosimilars. While the policy was reversed in November 2017 and CMS now assigns an individual HCPCS code to each biosimilar,³³ there is a need to empirically assess the utilization of the modifiers for biosimilars that are affected.

To address the issues identified early in this study, BBCIC commissioned 2 additional work groups to address the challenges of drug switching and exposure identification. First, specific methodological recommendations are needed to handle the complexity of switching in the context of comparative effectiveness or safety studies that may involve several classes of biologics with potentially multiple biosimilars for each reference biologic. Second, an empirical examination of the BBCIC DRN databases has been conducted to assess the utilization of HCPCS modifiers and NDC numbers in medical claims.³⁴ The goal was to determine the potential of using these data fields to improve the identification of biologic and biosimilar exposure that is billed using nonspecific HCPCS codes, biosimilars that do not have a modifier to specify the manufacturer under the older CMS policy, and administrations that occurred at inpatient and ED settings that would have otherwise not been captured. While the incorporation of HCPCS modifiers and medical claim NDC numbers may complicate exposure ascertainment, it has the potential to meaningfully improve the capture of biologics and biosimilars. While the FDA has issued guidance on nonproprietary naming of biologicals products, it will take time for widespread adoption into our electronic medical records and routine utilization in administrative claims processing.³⁵ The 2 BBCIC work groups are currently

ongoing, and the findings will inform future biosimilar surveillance activities.

Finally, as the existing BBCIC DRN is based on administrative claims data, there are challenges with identifying outcome measures related to clinical effectiveness. This study helped confirm whether effectiveness could be quantified either directly or indirectly (e.g., surrogate measures) and provided a means of identifying opportunities where data enrichment of the existing DRN will be necessary to better answer some effectiveness outcomes of interest. Work is ongoing to develop more robust capabilities to support BBCIC research, and this study provided a necessary baseline from which to build.

Conclusions

This descriptive study demonstrates that the BBCIC DRN is a useful source for biologic surveillance. Efforts are currently in progress to address the methodological challenges identified in the study, such as the ascertainment of biosimilars in the DRN. The lessons learned are translatable to other future studies, including the importance of a thorough appraisal of methods used to assess and classify exposure, an in-depth understanding of the Sentinel distributed system and tools, and a phased analytic approach.

Authors

JIE ZHANG, PhD; GAYATHRI SRIDHAR, PhD; and KEVIN HAYNES, PharmD, MSCE, HealthCore, Wilmington, Delaware. CHARLES E. BARR, MD, MPH, and BERNADETTE EICHELBERGER, PharmD, AMCP, Alexandria, Virginia. CATHERINE M. LOCKHART, PharmD, PhD, Biologics and Biosimilars Collective Intelligence Consortium, Alexandria, Virginia. JAMES MARSHALL, MPH, and JEFFREY S. BROWN, PhD, Harvard Pilgrim Health Care Institute, Boston, Massachusetts. JERRY CLEWELL, PharmD, MBA, and CYNTHIA HOLMES, PharmD, MS, AbbVie, North Chicago, Illinois. NEIL A. ACCORTT, PhD, Amgen, Thousand Oaks, California; JEFFREY R. CURTIS, MD, MS, MPH, University of Alabama at Birmingham; and CHERYL N. MCMAHILL-WALRAVEN, PhD, Healthagen, a CVS Health company, Blue Bell, Pennsylvania.

AUTHOR CORRESPONDENCE: Kevin Haynes, PharmD, MSCE, HealthCore, 123 Justison St., Ste. 200, Wilmington, DE 19801. Tel.: 302.230.2108; E-mail: khaynes@healthcore.com.

DISCLOSURES

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APPENDIX A Medications of Interest by Category and FDA-Approved indication

	RA	IBD	Psoriasis, Psoriatic Arthritis, Ankylosing Spondylitis
Anti-TNF and $\alpha 4\beta 1$ -integrin biologics			
Adalimumab	Y	Y	Y
Certolizumab	Y	Y	Y
Etanercepta	Y	N	Y
Golimumab	Y	Y	Y
Infliximaba	Y	Y	Y
Natalizumab	N	Y	N
Non-TNF- α -antagonist biologics			
Abatacept (T-cell target)	Y	N	N
Rituximab (CD20+ B cells)	Y	N	N
Tocilizumab (IL-6 receptor target)	Y	N	N
Ustekinumab (IL-12 and IL-23 receptor target)	N	N	Y ^a
Vedolizumab (MAdCAM-1 target)	N	Y ^a	N
Oral DMARD			
Tofacitinib (JAK inhibitor)	Y ^a	N	N
Nonbiologic agents			
6-mercaptopurine	N	Y	N
Azathioprine	N	Y	N
Hydroxychloroquine	Y	N	N
Methotrexate	N ^b	N	Y
Leflunomide	Y	N	Y
Sulfasalazine	Y	N	Y

^aData not presented due to small numbers.

^bPrior use of methotrexate in the previous year required of eligible RA patients.

DMARD = disease-modifying antirheumatic drug; IBD = inflammatory bowel disease; RA = rheumatoid arthritis; TNF = tumor necrosis factor.

APPENDIX B Code Lists

Category	Description	Code	CodeType
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Felty's syndrome	714.1	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Juvenile chronic polyarthritis	714.3	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Monoarticular juvenile rheumatoid arthritis	714.33	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Other	714.89	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Other rheumatoid arthritis with visceral or systemic involvement	714.2	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Other specified inflammatory polyarthropathies	714.8	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Pauciarticular juvenile rheumatoid arthritis	714.32	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Polyarticular juvenile rheumatoid arthritis, acute	714.31	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Polyarticular juvenile rheumatoid arthritis, chronic or unspecified	714.3	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Rheumatoid arthritis	714.0	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Rheumatoid lung	714.81	ICD-9 Diagnosis
Rheumatoid arthritis (RA)	Rheumatoid arthritis (RA) Unspecified inflammatory polyarthropathy	714.9	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Left-sided ulcerative (chronic) colitis	556.5	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Other ulcerative colitis	556.8	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Pseudopolyposis of colon	556.4	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Regional enteritis of large intestine	555.1	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Regional enteritis of small intestine	555.0	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Regional enteritis of small intestine with large intestine	555.2	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Regional enteritis of unspecified site	555.9	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Ulcerative (chronic) enterocolitis	556.0	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Ulcerative (chronic) ileocolitis	556.1	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Ulcerative (chronic) proctitis	556.2	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Ulcerative (chronic) proctosigmoiditis	556.3	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Ulcerative colitis, unspecified	556.9	ICD-9 Diagnosis
Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD) Universal ulcerative (chronic) colitis	556.6	ICD-9 Diagnosis
Psoriasis (PsO)/psoriatic arthritis (PsA)/ankylosing spondylitis (AS)	Ankylosing spondylitis (AS) Ankylosing spondylitis	720.0	ICD-9 Diagnosis
Psoriasis (PsO)/psoriatic arthritis (PsA)/ankylosing spondylitis (AS)	Psoriasis (PsO) Other psoriasis	696.1	ICD-9 Diagnosis
Psoriasis (PsO)/psoriatic arthritis (PsA)/ankylosing spondylitis (AS)	Psoriasis (PsO) Psoriasis related disease NEC	696.8	ICD-9 Diagnosis
Psoriasis (PsO)/psoriatic arthritis (PsA)/ankylosing spondylitis (AS)	Psoriatic arthritis (PsA) Psoriatic arthropathy	696.0	ICD-9 Diagnosis
Immunocompromising conditions	Chronic kidney disease	585.3	ICD-9 Diagnosis
Immunocompromising conditions	Chronic kidney disease	585.4	ICD-9 Diagnosis
Immunocompromising conditions	Chronic kidney disease	585.5	ICD-9 Diagnosis
Immunocompromising conditions	Chronic kidney disease	585.6	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Immunocompromising conditions	Chronic kidney disease	90918	HCPCS
Immunocompromising conditions	Chronic kidney disease	90919	HCPCS
Immunocompromising conditions	Chronic kidney disease	90920	HCPCS
Immunocompromising conditions	Chronic kidney disease	90921	HCPCS
Immunocompromising conditions	Chronic kidney disease	90922	HCPCS
Immunocompromising conditions	Chronic kidney disease	90923	HCPCS
Immunocompromising conditions	Chronic kidney disease	90924	HCPCS
Immunocompromising conditions	Chronic kidney disease	90925	HCPCS
Immunocompromising conditions	Chronic kidney disease	90935	HCPCS
Immunocompromising conditions	Chronic kidney disease	90937	HCPCS
Immunocompromising conditions	Chronic kidney disease	90939	HCPCS
Immunocompromising conditions	Chronic kidney disease	90940	HCPCS
Immunocompromising conditions	Chronic kidney disease	90945	HCPCS
Immunocompromising conditions	Chronic kidney disease	90947	HCPCS
Immunocompromising conditions	Chronic kidney disease	90951	HCPCS
Immunocompromising conditions	Chronic kidney disease	90952	HCPCS
Immunocompromising conditions	Chronic kidney disease	90953	HCPCS
Immunocompromising conditions	Chronic kidney disease	90954	HCPCS
Immunocompromising conditions	Chronic kidney disease	90955	HCPCS
Immunocompromising conditions	Chronic kidney disease	90956	HCPCS
Immunocompromising conditions	Chronic kidney disease	90957	HCPCS
Immunocompromising conditions	Chronic kidney disease	90958	HCPCS
Immunocompromising conditions	Chronic kidney disease	90959	HCPCS
Immunocompromising conditions	Chronic kidney disease	90960	HCPCS
Immunocompromising conditions	Chronic kidney disease	90961	HCPCS
Immunocompromising conditions	Chronic kidney disease	90962	HCPCS
Immunocompromising conditions	Chronic kidney disease	90963	HCPCS
Immunocompromising conditions	Chronic kidney disease	90964	HCPCS
Immunocompromising conditions	Chronic kidney disease	90965	HCPCS
Immunocompromising conditions	Chronic kidney disease	90966	HCPCS
Immunocompromising conditions	Chronic kidney disease	90967	HCPCS
Immunocompromising conditions	Chronic kidney disease	90968	HCPCS
Immunocompromising conditions	Chronic kidney disease	90969	HCPCS
Immunocompromising conditions	Chronic kidney disease	90970	HCPCS
Immunocompromising conditions	Chronic kidney disease	90989	HCPCS
Immunocompromising conditions	Chronic kidney disease	90993	HCPCS
Immunocompromising conditions	Chronic kidney disease	90997	HCPCS
Immunocompromising conditions	Chronic kidney disease	90999	HCPCS
Immunocompromising conditions	Chronic kidney disease	39.27	ICD-9 Procedure
Immunocompromising conditions	Chronic kidney disease	39.42	ICD-9 Procedure
Immunocompromising conditions	Chronic kidney disease	39.43	ICD-9 Procedure
Immunocompromising conditions	Chronic kidney disease	39.95	ICD-9 Procedure

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Immunocompromising conditions	Chronic liver disease	456.0	ICD-9 Diagnosis
Immunocompromising conditions	Chronic liver disease	456.1	ICD-9 Diagnosis
Immunocompromising conditions	Chronic liver disease	456.20	ICD-9 Diagnosis
Immunocompromising conditions	Chronic liver disease	456.21	ICD-9 Diagnosis
Immunocompromising conditions	Chronic liver disease	572.2	ICD-9 Diagnosis
Immunocompromising conditions	Chronic liver disease	789.5	ICD-9 Diagnosis
Immunocompromising conditions	HIV	042	ICD-9 Diagnosis
Immunocompromising conditions	HIV	043	ICD-9 Diagnosis
Immunocompromising conditions	HIV	044	ICD-9 Diagnosis
Immunocompromising conditions	HIV	V08	ICD-9 Diagnosis
Immunocompromising conditions	HIV	795.71	ICD-9 Diagnosis
Immunocompromising conditions	HIV	079.53	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	V42.0	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	V42.1	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	V42.6	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	V42.7	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	V42.81	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	V42.82	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	V42.83	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	V42.84	ICD-9 Diagnosis
Immunocompromising conditions	Organ transplantation	32851	HCPCS
Immunocompromising conditions	Organ transplantation	32852	HCPCS
Immunocompromising conditions	Organ transplantation	32853	HCPCS
Immunocompromising conditions	Organ transplantation	32854	HCPCS
Immunocompromising conditions	Organ transplantation	33935	HCPCS
Immunocompromising conditions	Organ transplantation	38240	HCPCS
Immunocompromising conditions	Organ transplantation	38241	HCPCS
Immunocompromising conditions	Organ transplantation	47135	HCPCS
Immunocompromising conditions	Organ transplantation	47136	HCPCS
Immunocompromising conditions	Organ transplantation	48554	HCPCS
Immunocompromising conditions	Organ transplantation	48556	HCPCS
Immunocompromising conditions	Organ transplantation	50340	HCPCS
Immunocompromising conditions	Organ transplantation	50360	HCPCS
Immunocompromising conditions	Organ transplantation	50365	HCPCS
Immunocompromising conditions	Organ transplantation	50370	HCPCS
Immunocompromising conditions	Organ transplantation	50380	HCPCS
Immunocompromising conditions	Organ transplantation	33.5	ICD-9 Procedure
Immunocompromising conditions	Organ transplantation	33.6	ICD-9 Procedure
Immunocompromising conditions	Organ transplantation	37.5	ICD-9 Procedure
Immunocompromising conditions	Organ transplantation	41.0	ICD-9 Procedure
Immunocompromising conditions	Organ transplantation	50.5	ICD-9 Procedure
Immunocompromising conditions	Organ transplantation	52.8	ICD-9 Procedure

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Immunocompromising conditions	Organ transplantation	55.6	ICD-9 Procedure
Immunocompromising conditions	Organ transplantation	46.97	ICD-9 Procedure
Immunocompromising conditions	Organ transplantation	54.98	ICD-9 Procedure
Non-melanoma cancer	Non-melanoma cancer	140	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	140	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	140*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	140**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	141	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	141*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	141**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	142	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	142*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	142**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	143	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	143*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	143**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	144	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	144*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	144**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	145	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	145*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	145**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	146	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	146*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	146**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	147	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	147*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	147**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	148	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	148*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	148**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	149	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	149*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	149**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	150	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	150*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	150**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	151	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	151*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	151**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	152	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	152*	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Non-melanoma cancer	Non-melanoma cancer	152**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	153	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	153*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	153**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	154	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	154*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	154**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	155	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	155*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	155**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	156	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	156*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	156**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	157	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	157*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	157**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	158	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	158*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	158**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	159	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	159*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	159**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	160	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	160*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	160**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	161	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	161*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	161**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	162	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	162*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	162**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	163	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	163*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	163**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	164	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	164*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	164**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	165	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	165*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	165**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.0	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.1	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Non-melanoma cancer	Non-melanoma cancer	170.2	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.3	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.4	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.5	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.6	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.7	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.8	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	170.9	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.0	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.2	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.3	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.4	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.5	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.6	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.7	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.8	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	171.9	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.0	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.1	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.2	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.3	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.4	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.5	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.6	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.7	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.8	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	172.9	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.0	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.1	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.2	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.3	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.4	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.5	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.6	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.8	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	174.9	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	175	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	176	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	179	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	180	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	181	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	182	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Non-melanoma cancer	Non-melanoma cancer	183	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	184	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	185	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	186	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	187	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	188	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	189	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	190	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	191	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	192	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	193	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	194	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	195	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	196	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	197	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	198	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	199	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	200	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	201	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	202	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	203	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	204	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	205	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	206	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	207	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	208	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	175*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	176*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	179*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	180*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	181*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	182*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	183*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	184*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	185*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	186*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	187*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	188*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	189*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	190*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	191*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	192*	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Non-melanoma cancer	Non-melanoma cancer	193*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	194*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	195*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	196*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	197*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	198*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	199*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	200*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	201*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	202*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	203*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	204*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	205*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	206*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	207*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	208*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	175**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	176**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	179**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	180**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	181**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	182**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	183**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	184**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	185**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	186**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	187**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	188**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	189**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	190**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	191**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	192**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	193**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	194**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	195**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	196**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	197**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	198**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	199**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	200**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	201**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	202**	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Non-melanoma cancer	Non-melanoma cancer	203**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	204**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	205**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	206**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	207**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	208**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	169**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	175*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	175**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	176*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	176**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	179*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	179**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	180*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	180**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	181*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	181**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	182*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	182**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	183*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	183**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	184*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	184**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	185*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	185**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	186*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	186**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	187*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	187**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	188*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	188**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	189*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	189**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	190*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	190**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	191*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	191**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	192*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	192**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	193*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	193**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	194*	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Non-melanoma cancer	Non-melanoma cancer	194**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	195*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	195**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	196*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	196**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	197*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	197**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	198*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	198**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	199*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	199**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	200*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	200**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	201*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	201**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	202*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	202**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	203*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	203**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	204*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	204**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	205*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	205**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	206*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	206**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	207*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	207**	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	208*	ICD-9 Diagnosis
Non-melanoma cancer	Non-melanoma cancer	208**	ICD-9 Diagnosis
Serious infection	Appendicitis	540.0	ICD-9 Diagnosis
Serious infection	Appendicitis	540.1	ICD-9 Diagnosis
Serious infection	Appendicitis	540.9	ICD-9 Diagnosis
Serious infection	Appendicitis	541	ICD-9 Diagnosis
Serious infection	Appendicitis	542	ICD-9 Diagnosis
Serious infection	Appendicitis	543.0	ICD-9 Diagnosis
Serious infection	Appendicitis	543.9	ICD-9 Diagnosis
Serious infection	Infectious arthritis	003.23	ICD-9 Diagnosis
Serious infection	Infectious arthritis	003.24	ICD-9 Diagnosis
Serious infection	Infectious arthritis	026.1	ICD-9 Diagnosis
Serious infection	Infectious arthritis	036.82	ICD-9 Diagnosis
Serious infection	Infectious arthritis	056.71	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.00	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infectious arthritis	711.01	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.02	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.03	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.04	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.05	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.06	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.07	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.08	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.09	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.10	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.11	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.12	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.13	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.14	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.15	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.16	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.17	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.18	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.19	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.20	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.21	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.22	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.23	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.24	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.25	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.26	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.27	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.28	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.29	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.30	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.31	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.32	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.33	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.34	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.35	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.36	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.37	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.38	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.39	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.40	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.41	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.42	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infectious arthritis	711.43	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.44	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.45	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.46	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.47	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.48	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.49	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.50	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.51	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.52	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.53	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.54	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.55	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.56	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.57	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.58	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.59	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.60	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.61	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.62	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.63	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.64	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.65	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.66	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.67	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.68	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.69	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.70	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.71	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.72	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.73	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.74	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.75	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.76	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.77	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.78	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.79	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.80	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.81	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.82	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.83	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.84	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infectious arthritis	711.85	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.86	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.87	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.88	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.89	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.90	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.91	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.92	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.93	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.94	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.95	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.96	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.97	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.98	ICD-9 Diagnosis
Serious infection	Infectious arthritis	711.99	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.00	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.01	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.02	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.03	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.04	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.05	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.06	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.07	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.08	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.09	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.10	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.11	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.12	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.13	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.14	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.15	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.16	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.17	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.18	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.19	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.20	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.21	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.22	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.23	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.24	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.25	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.26	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infectious arthritis	730.27	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.28	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.29	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.30	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.31	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.32	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.33	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.34	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.35	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.36	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.37	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.38	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.39	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.70	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.71	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.72	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.73	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.74	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.75	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.76	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.77	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.78	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.79	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.80	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.81	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.82	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.83	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.84	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.85	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.86	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.87	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.88	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.89	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.90	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.91	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.92	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.93	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.94	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.95	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.96	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.97	ICD-9 Diagnosis
Serious infection	Infectious arthritis	730.98	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infectious arthritis	730.99	ICD-9 Diagnosis
Serious infection	Bacterial infection	020.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	020.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	020.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	021.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	021.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	022.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	022.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	023.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	023.1	ICD-9 Diagnosis
Serious infection	Bacterial infection	023.2	ICD-9 Diagnosis
Serious infection	Bacterial infection	023.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	023.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	023.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	024	ICD-9 Diagnosis
Serious infection	Bacterial infection	025	ICD-9 Diagnosis
Serious infection	Bacterial infection	026.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	026.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	027.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	027.1	ICD-9 Diagnosis
Serious infection	Bacterial infection	027.2	ICD-9 Diagnosis
Serious infection	Bacterial infection	027.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	027.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	030.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	030.1	ICD-9 Diagnosis
Serious infection	Bacterial infection	030.2	ICD-9 Diagnosis
Serious infection	Bacterial infection	030.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	030.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	030.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	031.2	ICD-9 Diagnosis
Serious infection	Bacterial infection	031.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	031.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	032.89	ICD-9 Diagnosis
Serious infection	Bacterial infection	032.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	033.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	033.1	ICD-9 Diagnosis
Serious infection	Bacterial infection	033.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	033.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	034.1	ICD-9 Diagnosis
Serious infection	Bacterial infection	036.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	036.81	ICD-9 Diagnosis
Serious infection	Bacterial infection	036.89	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Bacterial infection	036.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	037	ICD-9 Diagnosis
Serious infection	Bacterial infection	039.2	ICD-9 Diagnosis
Serious infection	Bacterial infection	039.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	039.4	ICD-9 Diagnosis
Serious infection	Bacterial infection	039.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	039.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	040.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	040.1	ICD-9 Diagnosis
Serious infection	Bacterial infection	040.2	ICD-9 Diagnosis
Serious infection	Bacterial infection	040.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	040.42	ICD-9 Diagnosis
Serious infection	Bacterial infection	040.81	ICD-9 Diagnosis
Serious infection	Bacterial infection	040.82	ICD-9 Diagnosis
Serious infection	Bacterial infection	040.89	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.00	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.01	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.02	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.03	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.04	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.05	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.09	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.1	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.10	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.11	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.12	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.19	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.2	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.4	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.41	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.49	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.5	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.6	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.7	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.8	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.81	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.82	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.83	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.84	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.85	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Bacterial infection	041.86	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.89	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	078.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	390	ICD-9 Diagnosis
Serious infection	Bacterial infection	392.9	ICD-9 Diagnosis
Serious infection	Bacterial infection	795.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	795.31	ICD-9 Diagnosis
Serious infection	Bacterial infection	795.39	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.42	ICD-9 Diagnosis
Serious infection	Bacterial infection	041.43	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.0	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.1	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.2	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.3	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.4	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.50	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.51	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.6	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.70	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.71	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.80	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.81	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.90	ICD-9 Diagnosis
Serious infection	Bacterial infection	V09.91	ICD-9 Diagnosis
Serious infection	Bacterial infection	V12.04	ICD-9 Diagnosis
Serious infection	Bronchitis	466.0	ICD-9 Diagnosis
Serious infection	Bronchitis	466.1	ICD-9 Diagnosis
Serious infection	Bronchitis	466.11	ICD-9 Diagnosis
Serious infection	Bronchitis	466.19	ICD-9 Diagnosis
Serious infection	Carditis	032.82	ICD-9 Diagnosis
Serious infection	Carditis	036.40	ICD-9 Diagnosis
Serious infection	Carditis	036.41	ICD-9 Diagnosis
Serious infection	Carditis	036.42	ICD-9 Diagnosis
Serious infection	Carditis	036.43	ICD-9 Diagnosis
Serious infection	Carditis	074.20	ICD-9 Diagnosis
Serious infection	Carditis	074.21	ICD-9 Diagnosis
Serious infection	Carditis	074.22	ICD-9 Diagnosis
Serious infection	Carditis	074.23	ICD-9 Diagnosis
Serious infection	Carditis	112.81	ICD-9 Diagnosis
Serious infection	Carditis	115.03	ICD-9 Diagnosis
Serious infection	Carditis	115.04	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Carditis	115.13	ICD-9 Diagnosis
Serious infection	Carditis	115.14	ICD-9 Diagnosis
Serious infection	Carditis	115.93	ICD-9 Diagnosis
Serious infection	Carditis	115.94	ICD-9 Diagnosis
Serious infection	Carditis	130.3	ICD-9 Diagnosis
Serious infection	Carditis	391.0	ICD-9 Diagnosis
Serious infection	Carditis	391.1	ICD-9 Diagnosis
Serious infection	Carditis	391.2	ICD-9 Diagnosis
Serious infection	Carditis	391.8	ICD-9 Diagnosis
Serious infection	Carditis	391.9	ICD-9 Diagnosis
Serious infection	Carditis	392.0	ICD-9 Diagnosis
Serious infection	Carditis	393	ICD-9 Diagnosis
Serious infection	Carditis	398.0	ICD-9 Diagnosis
Serious infection	Carditis	398.90	ICD-9 Diagnosis
Serious infection	Carditis	398.99	ICD-9 Diagnosis
Serious infection	Carditis	420.0	ICD-9 Diagnosis
Serious infection	Carditis	420.90	ICD-9 Diagnosis
Serious infection	Carditis	420.91	ICD-9 Diagnosis
Serious infection	Carditis	420.99	ICD-9 Diagnosis
Serious infection	Carditis	421.0	ICD-9 Diagnosis
Serious infection	Carditis	421.1	ICD-9 Diagnosis
Serious infection	Carditis	421.9	ICD-9 Diagnosis
Serious infection	Carditis	422.0	ICD-9 Diagnosis
Serious infection	Carditis	422.90	ICD-9 Diagnosis
Serious infection	Carditis	422.91	ICD-9 Diagnosis
Serious infection	Carditis	422.92	ICD-9 Diagnosis
Serious infection	Carditis	422.93	ICD-9 Diagnosis
Serious infection	Carditis	422.99	ICD-9 Diagnosis
Serious infection	Carditis	423.0	ICD-9 Diagnosis
Serious infection	Carditis	423.1	ICD-9 Diagnosis
Serious infection	Carditis	423.2	ICD-9 Diagnosis
Serious infection	Carditis	423.3	ICD-9 Diagnosis
Serious infection	Carditis	423.8	ICD-9 Diagnosis
Serious infection	Carditis	423.9	ICD-9 Diagnosis
Serious infection	Carditis	425.0	ICD-9 Diagnosis
Serious infection	Carditis	425.1	ICD-9 Diagnosis
Serious infection	Carditis	425.11	ICD-9 Diagnosis
Serious infection	Carditis	425.18	ICD-9 Diagnosis
Serious infection	Carditis	425.2	ICD-9 Diagnosis
Serious infection	Carditis	425.3	ICD-9 Diagnosis
Serious infection	Carditis	425.4	ICD-9 Diagnosis
Serious infection	Carditis	425.7	ICD-9 Diagnosis

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APPENDIX B Code Lists *(continued)*

Category	Description	Code	CodeType
Serious infection	Carditis	425.8	ICD-9 Diagnosis
Serious infection	Carditis	425.9	ICD-9 Diagnosis
Serious infection	Carditis	429.0	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.00	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.01	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.02	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.03	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.10	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.11	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.12	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.13	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.20	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.21	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.22	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.23	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.90	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.91	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.92	ICD-9 Diagnosis
Serious infection	Infection other CNS	045.93	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.0	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.1	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.11	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.19	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.3	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.71	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.72	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.79	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.8	ICD-9 Diagnosis
Serious infection	Infection other CNS	046.9	ICD-9 Diagnosis
Serious infection	Infection other CNS	048	ICD-9 Diagnosis
Serious infection	Infection other CNS	138	ICD-9 Diagnosis
Serious infection	Infection other CNS	324.0	ICD-9 Diagnosis
Serious infection	Infection other CNS	324.1	ICD-9 Diagnosis
Serious infection	Infection other CNS	324.9	ICD-9 Diagnosis
Serious infection	Infection other CNS	326	ICD-9 Diagnosis
Serious infection	Infection other CNS	V12.02	ICD-9 Diagnosis
Serious infection	Infection other complications	279.50	ICD-9 Diagnosis
Serious infection	Infection other complications	279.51	ICD-9 Diagnosis
Serious infection	Infection other complications	279.52	ICD-9 Diagnosis
Serious infection	Infection other complications	279.53	ICD-9 Diagnosis
Serious infection	Infection other complications	414.02	ICD-9 Diagnosis
Serious infection	Infection other complications	414.03	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infection other complications	414.04	ICD-9 Diagnosis
Serious infection	Infection other complications	414.05	ICD-9 Diagnosis
Serious infection	Infection other complications	414.07	ICD-9 Diagnosis
Serious infection	Infection other complications	440.30	ICD-9 Diagnosis
Serious infection	Infection other complications	440.31	ICD-9 Diagnosis
Serious infection	Infection other complications	440.32	ICD-9 Diagnosis
Serious infection	Infection other complications	569.60	ICD-9 Diagnosis
Serious infection	Infection other complications	569.61	ICD-9 Diagnosis
Serious infection	Infection other complications	569.69	ICD-9 Diagnosis
Serious infection	Infection other complications	596.82	ICD-9 Diagnosis
Serious infection	Infection other complications	596.83	ICD-9 Diagnosis
Serious infection	Infection other complications	629.31	ICD-9 Diagnosis
Serious infection	Infection other complications	629.32	ICD-9 Diagnosis
Serious infection	Infection other complications	996.00	ICD-9 Diagnosis
Serious infection	Infection other complications	996.01	ICD-9 Diagnosis
Serious infection	Infection other complications	996.02	ICD-9 Diagnosis
Serious infection	Infection other complications	996.03	ICD-9 Diagnosis
Serious infection	Infection other complications	996.04	ICD-9 Diagnosis
Serious infection	Infection other complications	996.09	ICD-9 Diagnosis
Serious infection	Infection other complications	996.1	ICD-9 Diagnosis
Serious infection	Infection other complications	996.2	ICD-9 Diagnosis
Serious infection	Infection other complications	996.30	ICD-9 Diagnosis
Serious infection	Infection other complications	996.31	ICD-9 Diagnosis
Serious infection	Infection other complications	996.32	ICD-9 Diagnosis
Serious infection	Infection other complications	996.39	ICD-9 Diagnosis
Serious infection	Infection other complications	996.4	ICD-9 Diagnosis
Serious infection	Infection other complications	996.40	ICD-9 Diagnosis
Serious infection	Infection other complications	996.41	ICD-9 Diagnosis
Serious infection	Infection other complications	996.42	ICD-9 Diagnosis
Serious infection	Infection other complications	996.43	ICD-9 Diagnosis
Serious infection	Infection other complications	996.44	ICD-9 Diagnosis
Serious infection	Infection other complications	996.45	ICD-9 Diagnosis
Serious infection	Infection other complications	996.46	ICD-9 Diagnosis
Serious infection	Infection other complications	996.47	ICD-9 Diagnosis
Serious infection	Infection other complications	996.49	ICD-9 Diagnosis
Serious infection	Infection other complications	996.51	ICD-9 Diagnosis
Serious infection	Infection other complications	996.52	ICD-9 Diagnosis
Serious infection	Infection other complications	996.53	ICD-9 Diagnosis
Serious infection	Infection other complications	996.54	ICD-9 Diagnosis
Serious infection	Infection other complications	996.55	ICD-9 Diagnosis
Serious infection	Infection other complications	996.56	ICD-9 Diagnosis
Serious infection	Infection other complications	996.57	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infection other complications	996.59	ICD-9 Diagnosis
Serious infection	Infection other complications	996.6	ICD-9 Diagnosis
Serious infection	Infection other complications	996.60	ICD-9 Diagnosis
Serious infection	Infection other complications	996.61	ICD-9 Diagnosis
Serious infection	Infection other complications	996.62	ICD-9 Diagnosis
Serious infection	Infection other complications	996.63	ICD-9 Diagnosis
Serious infection	Infection other complications	996.64	ICD-9 Diagnosis
Serious infection	Infection other complications	996.65	ICD-9 Diagnosis
Serious infection	Infection other complications	996.66	ICD-9 Diagnosis
Serious infection	Infection other complications	996.67	ICD-9 Diagnosis
Serious infection	Infection other complications	996.68	ICD-9 Diagnosis
Serious infection	Infection other complications	996.69	ICD-9 Diagnosis
Serious infection	Infection other complications	996.7	ICD-9 Diagnosis
Serious infection	Infection other complications	996.70	ICD-9 Diagnosis
Serious infection	Infection other complications	996.71	ICD-9 Diagnosis
Serious infection	Infection other complications	996.72	ICD-9 Diagnosis
Serious infection	Infection other complications	996.73	ICD-9 Diagnosis
Serious infection	Infection other complications	996.74	ICD-9 Diagnosis
Serious infection	Infection other complications	996.75	ICD-9 Diagnosis
Serious infection	Infection other complications	996.76	ICD-9 Diagnosis
Serious infection	Infection other complications	996.77	ICD-9 Diagnosis
Serious infection	Infection other complications	996.78	ICD-9 Diagnosis
Serious infection	Infection other complications	996.79	ICD-9 Diagnosis
Serious infection	Infection other complications	996.80	ICD-9 Diagnosis
Serious infection	Infection other complications	996.81	ICD-9 Diagnosis
Serious infection	Infection other complications	996.82	ICD-9 Diagnosis
Serious infection	Infection other complications	996.83	ICD-9 Diagnosis
Serious infection	Infection other complications	996.84	ICD-9 Diagnosis
Serious infection	Infection other complications	996.85	ICD-9 Diagnosis
Serious infection	Infection other complications	996.86	ICD-9 Diagnosis
Serious infection	Infection other complications	996.87	ICD-9 Diagnosis
Serious infection	Infection other complications	996.88	ICD-9 Diagnosis
Serious infection	Infection other complications	996.89	ICD-9 Diagnosis
Serious infection	Infection other complications	996.90	ICD-9 Diagnosis
Serious infection	Infection other complications	996.91	ICD-9 Diagnosis
Serious infection	Infection other complications	996.92	ICD-9 Diagnosis
Serious infection	Infection other complications	996.93	ICD-9 Diagnosis
Serious infection	Infection other complications	996.94	ICD-9 Diagnosis
Serious infection	Infection other complications	996.95	ICD-9 Diagnosis
Serious infection	Infection other complications	996.96	ICD-9 Diagnosis
Serious infection	Infection other complications	996.99	ICD-9 Diagnosis
Serious infection	Infection other complications	999.31	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infection other complications	999.32	ICD-9 Diagnosis
Serious infection	Infection other complications	999.33	ICD-9 Diagnosis
Serious infection	COPD	490	ICD-9 Diagnosis
Serious infection	COPD	491.0	ICD-9 Diagnosis
Serious infection	COPD	491.1	ICD-9 Diagnosis
Serious infection	COPD	491.2	ICD-9 Diagnosis
Serious infection	COPD	491.20	ICD-9 Diagnosis
Serious infection	COPD	491.21	ICD-9 Diagnosis
Serious infection	COPD	491.22	ICD-9 Diagnosis
Serious infection	COPD	491.8	ICD-9 Diagnosis
Serious infection	COPD	491.9	ICD-9 Diagnosis
Serious infection	COPD	492.0	ICD-9 Diagnosis
Serious infection	COPD	492.8	ICD-9 Diagnosis
Serious infection	COPD	494	ICD-9 Diagnosis
Serious infection	COPD	494.0	ICD-9 Diagnosis
Serious infection	COPD	494.1	ICD-9 Diagnosis
Serious infection	COPD	496	ICD-9 Diagnosis
Serious infection	Diverticulitis	562.00	ICD-9 Diagnosis
Serious infection	Diverticulitis	562.01	ICD-9 Diagnosis
Serious infection	Diverticulitis	562.02	ICD-9 Diagnosis
Serious infection	Diverticulitis	562.03	ICD-9 Diagnosis
Serious infection	Diverticulitis	562.10	ICD-9 Diagnosis
Serious infection	Diverticulitis	562.11	ICD-9 Diagnosis
Serious infection	Diverticulitis	562.12	ICD-9 Diagnosis
Serious infection	Diverticulitis	562.13	ICD-9 Diagnosis
Serious infection	Encephalitis	036.1	ICD-9 Diagnosis
Serious infection	Encephalitis	046.2	ICD-9 Diagnosis
Serious infection	Encephalitis	049.8	ICD-9 Diagnosis
Serious infection	Encephalitis	049.9	ICD-9 Diagnosis
Serious infection	Encephalitis	052.0	ICD-9 Diagnosis
Serious infection	Encephalitis	054.3	ICD-9 Diagnosis
Serious infection	Encephalitis	055.0	ICD-9 Diagnosis
Serious infection	Encephalitis	056.01	ICD-9 Diagnosis
Serious infection	Encephalitis	058.21	ICD-9 Diagnosis
Serious infection	Encephalitis	058.29	ICD-9 Diagnosis
Serious infection	Encephalitis	062.0	ICD-9 Diagnosis
Serious infection	Encephalitis	062.1	ICD-9 Diagnosis
Serious infection	Encephalitis	062.2	ICD-9 Diagnosis
Serious infection	Encephalitis	062.3	ICD-9 Diagnosis
Serious infection	Encephalitis	062.4	ICD-9 Diagnosis
Serious infection	Encephalitis	062.5	ICD-9 Diagnosis
Serious infection	Encephalitis	062.8	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Encephalitis	062.9	ICD-9 Diagnosis
Serious infection	Encephalitis	063.0	ICD-9 Diagnosis
Serious infection	Encephalitis	063.1	ICD-9 Diagnosis
Serious infection	Encephalitis	063.2	ICD-9 Diagnosis
Serious infection	Encephalitis	063.8	ICD-9 Diagnosis
Serious infection	Encephalitis	063.9	ICD-9 Diagnosis
Serious infection	Encephalitis	064	ICD-9 Diagnosis
Serious infection	Encephalitis	066.2	ICD-9 Diagnosis
Serious infection	Encephalitis	066.41	ICD-9 Diagnosis
Serious infection	Encephalitis	072.2	ICD-9 Diagnosis
Serious infection	Encephalitis	130.0	ICD-9 Diagnosis
Serious infection	Encephalitis	139.0	ICD-9 Diagnosis
Serious infection	Encephalitis	323.0	ICD-9 Diagnosis
Serious infection	Encephalitis	323.01	ICD-9 Diagnosis
Serious infection	Encephalitis	323.02	ICD-9 Diagnosis
Serious infection	Encephalitis	323.1	ICD-9 Diagnosis
Serious infection	Encephalitis	323.2	ICD-9 Diagnosis
Serious infection	Encephalitis	323.4	ICD-9 Diagnosis
Serious infection	Encephalitis	323.41	ICD-9 Diagnosis
Serious infection	Encephalitis	323.42	ICD-9 Diagnosis
Serious infection	Encephalitis	323.5	ICD-9 Diagnosis
Serious infection	Encephalitis	323.51	ICD-9 Diagnosis
Serious infection	Encephalitis	323.52	ICD-9 Diagnosis
Serious infection	Encephalitis	323.6	ICD-9 Diagnosis
Serious infection	Encephalitis	323.61	ICD-9 Diagnosis
Serious infection	Encephalitis	323.62	ICD-9 Diagnosis
Serious infection	Encephalitis	323.63	ICD-9 Diagnosis
Serious infection	Encephalitis	323.7	ICD-9 Diagnosis
Serious infection	Encephalitis	323.71	ICD-9 Diagnosis
Serious infection	Encephalitis	323.72	ICD-9 Diagnosis
Serious infection	Encephalitis	323.8	ICD-9 Diagnosis
Serious infection	Encephalitis	323.81	ICD-9 Diagnosis
Serious infection	Encephalitis	323.82	ICD-9 Diagnosis
Serious infection	Encephalitis	323.9	ICD-9 Diagnosis
Serious infection	Encephalitis	341.20	ICD-9 Diagnosis
Serious infection	Encephalitis	341.21	ICD-9 Diagnosis
Serious infection	Encephalitis	341.22	ICD-9 Diagnosis
Serious infection	EYE	021.3	ICD-9 Diagnosis
Serious infection	EYE	032.81	ICD-9 Diagnosis
Serious infection	EYE	053.20	ICD-9 Diagnosis
Serious infection	EYE	053.21	ICD-9 Diagnosis
Serious infection	EYE	053.22	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	EYE	053.29	ICD-9 Diagnosis
Serious infection	EYE	054.40	ICD-9 Diagnosis
Serious infection	EYE	054.41	ICD-9 Diagnosis
Serious infection	EYE	054.42	ICD-9 Diagnosis
Serious infection	EYE	054.43	ICD-9 Diagnosis
Serious infection	EYE	054.44	ICD-9 Diagnosis
Serious infection	EYE	054.49	ICD-9 Diagnosis
Serious infection	EYE	055.71	ICD-9 Diagnosis
Serious infection	EYE	076.0	ICD-9 Diagnosis
Serious infection	EYE	076.1	ICD-9 Diagnosis
Serious infection	EYE	076.9	ICD-9 Diagnosis
Serious infection	EYE	077.0	ICD-9 Diagnosis
Serious infection	EYE	077.1	ICD-9 Diagnosis
Serious infection	EYE	077.2	ICD-9 Diagnosis
Serious infection	EYE	077.3	ICD-9 Diagnosis
Serious infection	EYE	077.4	ICD-9 Diagnosis
Serious infection	EYE	077.8	ICD-9 Diagnosis
Serious infection	EYE	077.9	ICD-9 Diagnosis
Serious infection	EYE	077.98	ICD-9 Diagnosis
Serious infection	EYE	077.99	ICD-9 Diagnosis
Serious infection	EYE	115.02	ICD-9 Diagnosis
Serious infection	EYE	115.12	ICD-9 Diagnosis
Serious infection	EYE	115.92	ICD-9 Diagnosis
Serious infection	EYE	130.1	ICD-9 Diagnosis
Serious infection	EYE	130.2	ICD-9 Diagnosis
Serious infection	EYE	139.1	ICD-9 Diagnosis
Serious infection	EYE	360.00	ICD-9 Diagnosis
Serious infection	EYE	360.01	ICD-9 Diagnosis
Serious infection	EYE	360.02	ICD-9 Diagnosis
Serious infection	EYE	360.03	ICD-9 Diagnosis
Serious infection	EYE	360.04	ICD-9 Diagnosis
Serious infection	EYE	360.11	ICD-9 Diagnosis
Serious infection	EYE	360.12	ICD-9 Diagnosis
Serious infection	EYE	360.13	ICD-9 Diagnosis
Serious infection	EYE	360.14	ICD-9 Diagnosis
Serious infection	EYE	360.19	ICD-9 Diagnosis
Serious infection	EYE	363.00	ICD-9 Diagnosis
Serious infection	EYE	363.01	ICD-9 Diagnosis
Serious infection	EYE	363.03	ICD-9 Diagnosis
Serious infection	EYE	363.04	ICD-9 Diagnosis
Serious infection	EYE	363.05	ICD-9 Diagnosis
Serious infection	EYE	363.06	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	EYE	363.07	ICD-9 Diagnosis
Serious infection	EYE	363.08	ICD-9 Diagnosis
Serious infection	EYE	363.10	ICD-9 Diagnosis
Serious infection	EYE	363.11	ICD-9 Diagnosis
Serious infection	EYE	363.12	ICD-9 Diagnosis
Serious infection	EYE	363.13	ICD-9 Diagnosis
Serious infection	EYE	363.14	ICD-9 Diagnosis
Serious infection	EYE	363.15	ICD-9 Diagnosis
Serious infection	EYE	363.20	ICD-9 Diagnosis
Serious infection	EYE	363.21	ICD-9 Diagnosis
Serious infection	EYE	363.22	ICD-9 Diagnosis
Serious infection	EYE	364.00	ICD-9 Diagnosis
Serious infection	EYE	364.01	ICD-9 Diagnosis
Serious infection	EYE	364.02	ICD-9 Diagnosis
Serious infection	EYE	364.03	ICD-9 Diagnosis
Serious infection	EYE	364.04	ICD-9 Diagnosis
Serious infection	EYE	364.05	ICD-9 Diagnosis
Serious infection	EYE	364.10	ICD-9 Diagnosis
Serious infection	EYE	364.11	ICD-9 Diagnosis
Serious infection	EYE	364.21	ICD-9 Diagnosis
Serious infection	EYE	364.22	ICD-9 Diagnosis
Serious infection	EYE	364.23	ICD-9 Diagnosis
Serious infection	EYE	364.24	ICD-9 Diagnosis
Serious infection	EYE	364.3	ICD-9 Diagnosis
Serious infection	EYE	370.20	ICD-9 Diagnosis
Serious infection	EYE	370.21	ICD-9 Diagnosis
Serious infection	EYE	370.22	ICD-9 Diagnosis
Serious infection	EYE	370.23	ICD-9 Diagnosis
Serious infection	EYE	370.24	ICD-9 Diagnosis
Serious infection	EYE	370.31	ICD-9 Diagnosis
Serious infection	EYE	370.32	ICD-9 Diagnosis
Serious infection	EYE	370.33	ICD-9 Diagnosis
Serious infection	EYE	370.34	ICD-9 Diagnosis
Serious infection	EYE	370.35	ICD-9 Diagnosis
Serious infection	EYE	370.40	ICD-9 Diagnosis
Serious infection	EYE	370.44	ICD-9 Diagnosis
Serious infection	EYE	370.49	ICD-9 Diagnosis
Serious infection	EYE	370.50	ICD-9 Diagnosis
Serious infection	EYE	370.52	ICD-9 Diagnosis
Serious infection	EYE	370.54	ICD-9 Diagnosis
Serious infection	EYE	370.55	ICD-9 Diagnosis
Serious infection	EYE	370.59	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	EYE	370.8	ICD-9 Diagnosis
Serious infection	EYE	370.9	ICD-9 Diagnosis
Serious infection	EYE	372.00	ICD-9 Diagnosis
Serious infection	EYE	372.01	ICD-9 Diagnosis
Serious infection	EYE	372.02	ICD-9 Diagnosis
Serious infection	EYE	372.03	ICD-9 Diagnosis
Serious infection	EYE	372.04	ICD-9 Diagnosis
Serious infection	EYE	372.05	ICD-9 Diagnosis
Serious infection	EYE	372.06	ICD-9 Diagnosis
Serious infection	EYE	372.10	ICD-9 Diagnosis
Serious infection	EYE	372.11	ICD-9 Diagnosis
Serious infection	EYE	372.12	ICD-9 Diagnosis
Serious infection	EYE	372.13	ICD-9 Diagnosis
Serious infection	EYE	372.14	ICD-9 Diagnosis
Serious infection	EYE	372.15	ICD-9 Diagnosis
Serious infection	EYE	372.20	ICD-9 Diagnosis
Serious infection	EYE	372.21	ICD-9 Diagnosis
Serious infection	EYE	372.22	ICD-9 Diagnosis
Serious infection	EYE	372.30	ICD-9 Diagnosis
Serious infection	EYE	372.31	ICD-9 Diagnosis
Serious infection	EYE	372.33	ICD-9 Diagnosis
Serious infection	EYE	372.39	ICD-9 Diagnosis
Serious infection	EYE	373.00	ICD-9 Diagnosis
Serious infection	EYE	373.01	ICD-9 Diagnosis
Serious infection	EYE	373.02	ICD-9 Diagnosis
Serious infection	EYE	373.11	ICD-9 Diagnosis
Serious infection	EYE	373.12	ICD-9 Diagnosis
Serious infection	EYE	373.13	ICD-9 Diagnosis
Serious infection	EYE	373.31	ICD-9 Diagnosis
Serious infection	EYE	373.32	ICD-9 Diagnosis
Serious infection	EYE	373.33	ICD-9 Diagnosis
Serious infection	EYE	373.34	ICD-9 Diagnosis
Serious infection	EYE	373.4	ICD-9 Diagnosis
Serious infection	EYE	373.5	ICD-9 Diagnosis
Serious infection	EYE	373.6	ICD-9 Diagnosis
Serious infection	EYE	373.8	ICD-9 Diagnosis
Serious infection	EYE	373.9	ICD-9 Diagnosis
Serious infection	EYE	375.00	ICD-9 Diagnosis
Serious infection	EYE	375.01	ICD-9 Diagnosis
Serious infection	EYE	375.02	ICD-9 Diagnosis
Serious infection	EYE	375.03	ICD-9 Diagnosis
Serious infection	EYE	375.30	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	EYE	375.31	ICD-9 Diagnosis
Serious infection	EYE	375.32	ICD-9 Diagnosis
Serious infection	EYE	375.33	ICD-9 Diagnosis
Serious infection	EYE	375.41	ICD-9 Diagnosis
Serious infection	EYE	375.42	ICD-9 Diagnosis
Serious infection	EYE	375.43	ICD-9 Diagnosis
Serious infection	EYE	376.00	ICD-9 Diagnosis
Serious infection	EYE	376.01	ICD-9 Diagnosis
Serious infection	EYE	376.02	ICD-9 Diagnosis
Serious infection	EYE	376.03	ICD-9 Diagnosis
Serious infection	EYE	376.04	ICD-9 Diagnosis
Serious infection	EYE	376.10	ICD-9 Diagnosis
Serious infection	EYE	376.11	ICD-9 Diagnosis
Serious infection	EYE	376.12	ICD-9 Diagnosis
Serious infection	EYE	376.13	ICD-9 Diagnosis
Serious infection	EYE	377.30	ICD-9 Diagnosis
Serious infection	EYE	377.31	ICD-9 Diagnosis
Serious infection	EYE	377.32	ICD-9 Diagnosis
Serious infection	EYE	377.33	ICD-9 Diagnosis
Serious infection	EYE	377.34	ICD-9 Diagnosis
Serious infection	EYE	377.39	ICD-9 Diagnosis
Serious infection	EYE	379.00	ICD-9 Diagnosis
Serious infection	EYE	379.01	ICD-9 Diagnosis
Serious infection	EYE	379.02	ICD-9 Diagnosis
Serious infection	EYE	379.03	ICD-9 Diagnosis
Serious infection	EYE	379.04	ICD-9 Diagnosis
Serious infection	EYE	379.05	ICD-9 Diagnosis
Serious infection	EYE	379.06	ICD-9 Diagnosis
Serious infection	EYE	379.07	ICD-9 Diagnosis
Serious infection	EYE	379.09	ICD-9 Diagnosis
Serious infection	EYE	379.60	ICD-9 Diagnosis
Serious infection	EYE	379.61	ICD-9 Diagnosis
Serious infection	EYE	379.62	ICD-9 Diagnosis
Serious infection	EYE	379.63	ICD-9 Diagnosis
Serious infection	Gangrene	440.24	ICD-9 Diagnosis
Serious infection	Gangrene	785.4	ICD-9 Diagnosis
Serious infection	Hepatitis	070.0	ICD-9 Diagnosis
Serious infection	Hepatitis	070.1	ICD-9 Diagnosis
Serious infection	Hepatitis	070.2	ICD-9 Diagnosis
Serious infection	Hepatitis	070.20	ICD-9 Diagnosis
Serious infection	Hepatitis	070.21	ICD-9 Diagnosis
Serious infection	Hepatitis	070.22	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Hepatitis	070.23	ICD-9 Diagnosis
Serious infection	Hepatitis	070.3	ICD-9 Diagnosis
Serious infection	Hepatitis	070.30	ICD-9 Diagnosis
Serious infection	Hepatitis	070.31	ICD-9 Diagnosis
Serious infection	Hepatitis	070.32	ICD-9 Diagnosis
Serious infection	Hepatitis	070.33	ICD-9 Diagnosis
Serious infection	Hepatitis	070.4	ICD-9 Diagnosis
Serious infection	Hepatitis	070.41	ICD-9 Diagnosis
Serious infection	Hepatitis	070.41	ICD-9 Diagnosis
Serious infection	Hepatitis	070.42	ICD-9 Diagnosis
Serious infection	Hepatitis	070.43	ICD-9 Diagnosis
Serious infection	Hepatitis	070.44	ICD-9 Diagnosis
Serious infection	Hepatitis	070.44	ICD-9 Diagnosis
Serious infection	Hepatitis	070.49	ICD-9 Diagnosis
Serious infection	Hepatitis	070.5	ICD-9 Diagnosis
Serious infection	Hepatitis	070.51	ICD-9 Diagnosis
Serious infection	Hepatitis	070.51	ICD-9 Diagnosis
Serious infection	Hepatitis	070.52	ICD-9 Diagnosis
Serious infection	Hepatitis	070.53	ICD-9 Diagnosis
Serious infection	Hepatitis	070.54	ICD-9 Diagnosis
Serious infection	Hepatitis	070.54	ICD-9 Diagnosis
Serious infection	Hepatitis	070.59	ICD-9 Diagnosis
Serious infection	Hepatitis	070.6	ICD-9 Diagnosis
Serious infection	Hepatitis	070.7	ICD-9 Diagnosis
Serious infection	Hepatitis	070.70	ICD-9 Diagnosis
Serious infection	Hepatitis	070.71	ICD-9 Diagnosis
Serious infection	Hepatitis	070.9	ICD-9 Diagnosis
Serious infection	Hepatitis	072.71	ICD-9 Diagnosis
Serious infection	Hepatitis	571.40	ICD-9 Diagnosis
Serious infection	Hepatitis	571.41	ICD-9 Diagnosis
Serious infection	Hepatitis	571.42	ICD-9 Diagnosis
Serious infection	Hepatitis	571.49	ICD-9 Diagnosis
Serious infection	Hepatitis	573.1	ICD-9 Diagnosis
Serious infection	Hepatitis	573.2	ICD-9 Diagnosis
Serious infection	Hepatitis	573.3	ICD-9 Diagnosis
Serious infection	Hepatitis	V02.62	ICD-9 Diagnosis
Serious infection	HIV	042	ICD-9 Diagnosis
Serious infection	HIV	042.0	ICD-9 Diagnosis
Serious infection	HIV	042.1	ICD-9 Diagnosis
Serious infection	HIV	042.2	ICD-9 Diagnosis
Serious infection	HIV	042.9	ICD-9 Diagnosis
Serious infection	HIV	043.0	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	HIV	043.1	ICD-9 Diagnosis
Serious infection	HIV	043.2	ICD-9 Diagnosis
Serious infection	HIV	043.3	ICD-9 Diagnosis
Serious infection	HIV	043.9	ICD-9 Diagnosis
Serious infection	HIV	044.0	ICD-9 Diagnosis
Serious infection	HIV	044.9	ICD-9 Diagnosis
Serious infection	HIV	079.53	ICD-9 Diagnosis
Serious infection	HIV	279.10	ICD-9 Diagnosis
Serious infection	HIV	279.19	ICD-9 Diagnosis
Serious infection	HIV	795.71	ICD-9 Diagnosis
Serious infection	HIV	795.8	ICD-9 Diagnosis
Serious infection	HIV	V08	ICD-9 Diagnosis
Serious infection	INF	487.0	ICD-9 Diagnosis
Serious infection	INF	487.1	ICD-9 Diagnosis
Serious infection	INF	487.8	ICD-9 Diagnosis
Serious infection	INF	488	ICD-9 Diagnosis
Serious infection	INF	488.0	ICD-9 Diagnosis
Serious infection	INF	488.01	ICD-9 Diagnosis
Serious infection	INF	488.02	ICD-9 Diagnosis
Serious infection	INF	488.09	ICD-9 Diagnosis
Serious infection	INF	488.1	ICD-9 Diagnosis
Serious infection	INF	488.11	ICD-9 Diagnosis
Serious infection	INF	488.12	ICD-9 Diagnosis
Serious infection	INF	488.19	ICD-9 Diagnosis
Serious infection	INF	488.81	ICD-9 Diagnosis
Serious infection	INF	488.82	ICD-9 Diagnosis
Serious infection	INF	488.89	ICD-9 Diagnosis
Serious infection	INF	V03.82	ICD-9 Diagnosis
Serious infection	INF	V04.81	ICD-9 Diagnosis
Serious infection	INF	V06.6	ICD-9 Diagnosis
Serious infection	Infection intestinal	001.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	001.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	001.9	ICD-9 Diagnosis
Serious infection	Infection intestinal	002.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	002.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	002.2	ICD-9 Diagnosis
Serious infection	Infection intestinal	002.3	ICD-9 Diagnosis
Serious infection	Infection intestinal	002.9	ICD-9 Diagnosis
Serious infection	Infection intestinal	003.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	003.20	ICD-9 Diagnosis
Serious infection	Infection intestinal	003.29	ICD-9 Diagnosis
Serious infection	Infection intestinal	003.8	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infection intestinal	003.9	ICD-9 Diagnosis
Serious infection	Infection intestinal	004.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	004.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	004.2	ICD-9 Diagnosis
Serious infection	Infection intestinal	004.3	ICD-9 Diagnosis
Serious infection	Infection intestinal	004.8	ICD-9 Diagnosis
Serious infection	Infection intestinal	004.9	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.2	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.3	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.4	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.8	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.81	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.89	ICD-9 Diagnosis
Serious infection	Infection intestinal	005.9	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.2	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.3	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.4	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.5	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.6	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.8	ICD-9 Diagnosis
Serious infection	Infection intestinal	006.9	ICD-9 Diagnosis
Serious infection	Infection intestinal	007.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	007.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	007.2	ICD-9 Diagnosis
Serious infection	Infection intestinal	007.3	ICD-9 Diagnosis
Serious infection	Infection intestinal	007.4	ICD-9 Diagnosis
Serious infection	Infection intestinal	007.5	ICD-9 Diagnosis
Serious infection	Infection intestinal	007.8	ICD-9 Diagnosis
Serious infection	Infection intestinal	007.9	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.00	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.01	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.02	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.03	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.04	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.09	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.2	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Infection intestinal	008.3	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.41	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.42	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.43	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.44	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.45	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.46	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.47	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.49	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.5	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.6	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.61	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.62	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.63	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.64	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.65	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.66	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.67	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.69	ICD-9 Diagnosis
Serious infection	Infection intestinal	008.8	ICD-9 Diagnosis
Serious infection	Infection intestinal	009.0	ICD-9 Diagnosis
Serious infection	Infection intestinal	009.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	009.2	ICD-9 Diagnosis
Serious infection	Infection intestinal	009.3	ICD-9 Diagnosis
Serious infection	Infection intestinal	021.1	ICD-9 Diagnosis
Serious infection	Infection intestinal	022.2	ICD-9 Diagnosis
Serious infection	Lymphadenitis	289.1	ICD-9 Diagnosis
Serious infection	Lymphadenitis	289.2	ICD-9 Diagnosis
Serious infection	Lymphadenitis	289.3	ICD-9 Diagnosis
Serious infection	Lymphadenitis	683	ICD-9 Diagnosis
Serious infection	Lymphadenitis	785.6	ICD-9 Diagnosis
Serious infection	Meningitis	003.21	ICD-9 Diagnosis
Serious infection	Meningitis	036.0	ICD-9 Diagnosis
Serious infection	Meningitis	047.0	ICD-9 Diagnosis
Serious infection	Meningitis	047.1	ICD-9 Diagnosis
Serious infection	Meningitis	047.8	ICD-9 Diagnosis
Serious infection	Meningitis	047.9	ICD-9 Diagnosis
Serious infection	Meningitis	049.0	ICD-9 Diagnosis
Serious infection	Meningitis	049.1	ICD-9 Diagnosis
Serious infection	Meningitis	053.0	ICD-9 Diagnosis
Serious infection	Meningitis	054.72	ICD-9 Diagnosis
Serious infection	Meningitis	072.1	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Meningitis	100.81	ICD-9 Diagnosis
Serious infection	Meningitis	112.83	ICD-9 Diagnosis
Serious infection	Meningitis	114.2	ICD-9 Diagnosis
Serious infection	Meningitis	115.01	ICD-9 Diagnosis
Serious infection	Meningitis	115.11	ICD-9 Diagnosis
Serious infection	Meningitis	115.91	ICD-9 Diagnosis
Serious infection	Meningitis	320.0	ICD-9 Diagnosis
Serious infection	Meningitis	320.1	ICD-9 Diagnosis
Serious infection	Meningitis	320.2	ICD-9 Diagnosis
Serious infection	Meningitis	320.3	ICD-9 Diagnosis
Serious infection	Meningitis	320.7	ICD-9 Diagnosis
Serious infection	Meningitis	320.8	ICD-9 Diagnosis
Serious infection	Meningitis	320.81	ICD-9 Diagnosis
Serious infection	Meningitis	320.82	ICD-9 Diagnosis
Serious infection	Meningitis	320.89	ICD-9 Diagnosis
Serious infection	Meningitis	320.9	ICD-9 Diagnosis
Serious infection	Meningitis	321.0	ICD-9 Diagnosis
Serious infection	Meningitis	321.1	ICD-9 Diagnosis
Serious infection	Meningitis	321.2	ICD-9 Diagnosis
Serious infection	Meningitis	321.3	ICD-9 Diagnosis
Serious infection	Meningitis	321.4	ICD-9 Diagnosis
Serious infection	Meningitis	321.8	ICD-9 Diagnosis
Serious infection	Meningitis	322.0	ICD-9 Diagnosis
Serious infection	Meningitis	322.1	ICD-9 Diagnosis
Serious infection	Meningitis	322.2	ICD-9 Diagnosis
Serious infection	Meningitis	322.9	ICD-9 Diagnosis
Serious infection	Mycoses	110.0	ICD-9 Diagnosis
Serious infection	Mycoses	110.1	ICD-9 Diagnosis
Serious infection	Mycoses	110.2	ICD-9 Diagnosis
Serious infection	Mycoses	110.3	ICD-9 Diagnosis
Serious infection	Mycoses	110.4	ICD-9 Diagnosis
Serious infection	Mycoses	110.5	ICD-9 Diagnosis
Serious infection	Mycoses	110.6	ICD-9 Diagnosis
Serious infection	Mycoses	110.8	ICD-9 Diagnosis
Serious infection	Mycoses	110.9	ICD-9 Diagnosis
Serious infection	Mycoses	111.0	ICD-9 Diagnosis
Serious infection	Mycoses	111.1	ICD-9 Diagnosis
Serious infection	Mycoses	111.2	ICD-9 Diagnosis
Serious infection	Mycoses	111.3	ICD-9 Diagnosis
Serious infection	Mycoses	111.8	ICD-9 Diagnosis
Serious infection	Mycoses	111.9	ICD-9 Diagnosis
Serious infection	Mycoses	112.0	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Mycoses	112.1	ICD-9 Diagnosis
Serious infection	Mycoses	112.2	ICD-9 Diagnosis
Serious infection	Mycoses	112.3	ICD-9 Diagnosis
Serious infection	Mycoses	112.5	ICD-9 Diagnosis
Serious infection	Mycoses	112.82	ICD-9 Diagnosis
Serious infection	Mycoses	112.84	ICD-9 Diagnosis
Serious infection	Mycoses	112.85	ICD-9 Diagnosis
Serious infection	Mycoses	112.89	ICD-9 Diagnosis
Serious infection	Mycoses	112.9	ICD-9 Diagnosis
Serious infection	Mycoses	114.1	ICD-9 Diagnosis
Serious infection	Mycoses	114.3	ICD-9 Diagnosis
Serious infection	Mycoses	114.9	ICD-9 Diagnosis
Serious infection	Mycoses	115.00	ICD-9 Diagnosis
Serious infection	Mycoses	115.09	ICD-9 Diagnosis
Serious infection	Mycoses	115.10	ICD-9 Diagnosis
Serious infection	Mycoses	115.19	ICD-9 Diagnosis
Serious infection	Mycoses	115.90	ICD-9 Diagnosis
Serious infection	Mycoses	115.99	ICD-9 Diagnosis
Serious infection	Mycoses	116.0	ICD-9 Diagnosis
Serious infection	Mycoses	116.1	ICD-9 Diagnosis
Serious infection	Mycoses	116.2	ICD-9 Diagnosis
Serious infection	Mycoses	117.0	ICD-9 Diagnosis
Serious infection	Mycoses	117.1	ICD-9 Diagnosis
Serious infection	Mycoses	117.2	ICD-9 Diagnosis
Serious infection	Mycoses	117.3	ICD-9 Diagnosis
Serious infection	Mycoses	117.4	ICD-9 Diagnosis
Serious infection	Mycoses	117.5	ICD-9 Diagnosis
Serious infection	Mycoses	117.6	ICD-9 Diagnosis
Serious infection	Mycoses	117.7	ICD-9 Diagnosis
Serious infection	Mycoses	117.8	ICD-9 Diagnosis
Serious infection	Mycoses	117.9	ICD-9 Diagnosis
Serious infection	Mycoses	118	ICD-9 Diagnosis
Serious infection	Other	080	ICD-9 Diagnosis
Serious infection	Other	081.0	ICD-9 Diagnosis
Serious infection	Other	081.1	ICD-9 Diagnosis
Serious infection	Other	081.2	ICD-9 Diagnosis
Serious infection	Other	081.9	ICD-9 Diagnosis
Serious infection	Other	082.0	ICD-9 Diagnosis
Serious infection	Other	082.1	ICD-9 Diagnosis
Serious infection	Other	082.2	ICD-9 Diagnosis
Serious infection	Other	082.3	ICD-9 Diagnosis
Serious infection	Other	082.40	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Other	082.41	ICD-9 Diagnosis
Serious infection	Other	082.49	ICD-9 Diagnosis
Serious infection	Other	082.8	ICD-9 Diagnosis
Serious infection	Other	082.9	ICD-9 Diagnosis
Serious infection	Other	083.1	ICD-9 Diagnosis
Serious infection	Other	083.2	ICD-9 Diagnosis
Serious infection	Other	083.8	ICD-9 Diagnosis
Serious infection	Other	083.9	ICD-9 Diagnosis
Serious infection	Other	084.0	ICD-9 Diagnosis
Serious infection	Other	084.1	ICD-9 Diagnosis
Serious infection	Other	084.2	ICD-9 Diagnosis
Serious infection	Other	084.3	ICD-9 Diagnosis
Serious infection	Other	084.4	ICD-9 Diagnosis
Serious infection	Other	084.5	ICD-9 Diagnosis
Serious infection	Other	084.6	ICD-9 Diagnosis
Serious infection	Other	084.7	ICD-9 Diagnosis
Serious infection	Other	084.8	ICD-9 Diagnosis
Serious infection	Other	084.9	ICD-9 Diagnosis
Serious infection	Other	085.0	ICD-9 Diagnosis
Serious infection	Other	085.1	ICD-9 Diagnosis
Serious infection	Other	085.2	ICD-9 Diagnosis
Serious infection	Other	085.3	ICD-9 Diagnosis
Serious infection	Other	085.4	ICD-9 Diagnosis
Serious infection	Other	085.5	ICD-9 Diagnosis
Serious infection	Other	085.9	ICD-9 Diagnosis
Serious infection	Other	086.0	ICD-9 Diagnosis
Serious infection	Other	086.1	ICD-9 Diagnosis
Serious infection	Other	086.2	ICD-9 Diagnosis
Serious infection	Other	086.3	ICD-9 Diagnosis
Serious infection	Other	086.4	ICD-9 Diagnosis
Serious infection	Other	086.5	ICD-9 Diagnosis
Serious infection	Other	086.9	ICD-9 Diagnosis
Serious infection	Other	087.0	ICD-9 Diagnosis
Serious infection	Other	087.1	ICD-9 Diagnosis
Serious infection	Other	087.9	ICD-9 Diagnosis
Serious infection	Other	088.0	ICD-9 Diagnosis
Serious infection	Other	088.8	ICD-9 Diagnosis
Serious infection	Other	088.81	ICD-9 Diagnosis
Serious infection	Other	088.82	ICD-9 Diagnosis
Serious infection	Other	088.89	ICD-9 Diagnosis
Serious infection	Other	088.9	ICD-9 Diagnosis
Serious infection	Other	100.0	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Other	100.9	ICD-9 Diagnosis
Serious infection	Other	101	ICD-9 Diagnosis
Serious infection	Other	102.0	ICD-9 Diagnosis
Serious infection	Other	102.1	ICD-9 Diagnosis
Serious infection	Other	102.2	ICD-9 Diagnosis
Serious infection	Other	102.3	ICD-9 Diagnosis
Serious infection	Other	102.4	ICD-9 Diagnosis
Serious infection	Other	102.5	ICD-9 Diagnosis
Serious infection	Other	102.6	ICD-9 Diagnosis
Serious infection	Other	102.7	ICD-9 Diagnosis
Serious infection	Other	102.8	ICD-9 Diagnosis
Serious infection	Other	102.9	ICD-9 Diagnosis
Serious infection	Other	103.0	ICD-9 Diagnosis
Serious infection	Other	103.1	ICD-9 Diagnosis
Serious infection	Other	103.2	ICD-9 Diagnosis
Serious infection	Other	103.3	ICD-9 Diagnosis
Serious infection	Other	103.9	ICD-9 Diagnosis
Serious infection	Other	104.0	ICD-9 Diagnosis
Serious infection	Other	104.8	ICD-9 Diagnosis
Serious infection	Other	104.9	ICD-9 Diagnosis
Serious infection	Other	120.0	ICD-9 Diagnosis
Serious infection	Other	120.1	ICD-9 Diagnosis
Serious infection	Other	120.2	ICD-9 Diagnosis
Serious infection	Other	120.3	ICD-9 Diagnosis
Serious infection	Other	120.8	ICD-9 Diagnosis
Serious infection	Other	120.9	ICD-9 Diagnosis
Serious infection	Other	121.0	ICD-9 Diagnosis
Serious infection	Other	121.1	ICD-9 Diagnosis
Serious infection	Other	121.2	ICD-9 Diagnosis
Serious infection	Other	121.3	ICD-9 Diagnosis
Serious infection	Other	121.4	ICD-9 Diagnosis
Serious infection	Other	121.5	ICD-9 Diagnosis
Serious infection	Other	121.6	ICD-9 Diagnosis
Serious infection	Other	121.8	ICD-9 Diagnosis
Serious infection	Other	121.9	ICD-9 Diagnosis
Serious infection	Other	122.0	ICD-9 Diagnosis
Serious infection	Other	122.1	ICD-9 Diagnosis
Serious infection	Other	122.2	ICD-9 Diagnosis
Serious infection	Other	122.3	ICD-9 Diagnosis
Serious infection	Other	122.4	ICD-9 Diagnosis
Serious infection	Other	122.5	ICD-9 Diagnosis
Serious infection	Other	122.6	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Other	122.7	ICD-9 Diagnosis
Serious infection	Other	122.8	ICD-9 Diagnosis
Serious infection	Other	122.9	ICD-9 Diagnosis
Serious infection	Other	123.0	ICD-9 Diagnosis
Serious infection	Other	123.1	ICD-9 Diagnosis
Serious infection	Other	123.2	ICD-9 Diagnosis
Serious infection	Other	123.3	ICD-9 Diagnosis
Serious infection	Other	123.4	ICD-9 Diagnosis
Serious infection	Other	123.5	ICD-9 Diagnosis
Serious infection	Other	123.6	ICD-9 Diagnosis
Serious infection	Other	123.8	ICD-9 Diagnosis
Serious infection	Other	123.9	ICD-9 Diagnosis
Serious infection	Other	124	ICD-9 Diagnosis
Serious infection	Other	125.0	ICD-9 Diagnosis
Serious infection	Other	125.1	ICD-9 Diagnosis
Serious infection	Other	125.2	ICD-9 Diagnosis
Serious infection	Other	125.3	ICD-9 Diagnosis
Serious infection	Other	125.4	ICD-9 Diagnosis
Serious infection	Other	125.5	ICD-9 Diagnosis
Serious infection	Other	125.6	ICD-9 Diagnosis
Serious infection	Other	125.7	ICD-9 Diagnosis
Serious infection	Other	125.9	ICD-9 Diagnosis
Serious infection	Other	126.0	ICD-9 Diagnosis
Serious infection	Other	126.1	ICD-9 Diagnosis
Serious infection	Other	126.2	ICD-9 Diagnosis
Serious infection	Other	126.3	ICD-9 Diagnosis
Serious infection	Other	126.8	ICD-9 Diagnosis
Serious infection	Other	126.9	ICD-9 Diagnosis
Serious infection	Other	127.0	ICD-9 Diagnosis
Serious infection	Other	127.1	ICD-9 Diagnosis
Serious infection	Other	127.2	ICD-9 Diagnosis
Serious infection	Other	127.3	ICD-9 Diagnosis
Serious infection	Other	127.4	ICD-9 Diagnosis
Serious infection	Other	127.5	ICD-9 Diagnosis
Serious infection	Other	127.6	ICD-9 Diagnosis
Serious infection	Other	127.7	ICD-9 Diagnosis
Serious infection	Other	127.8	ICD-9 Diagnosis
Serious infection	Other	127.9	ICD-9 Diagnosis
Serious infection	Other	128.0	ICD-9 Diagnosis
Serious infection	Other	128.1	ICD-9 Diagnosis
Serious infection	Other	128.8	ICD-9 Diagnosis
Serious infection	Other	128.9	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Other	129	ICD-9 Diagnosis
Serious infection	Other	130.5	ICD-9 Diagnosis
Serious infection	Other	130.7	ICD-9 Diagnosis
Serious infection	Other	130.8	ICD-9 Diagnosis
Serious infection	Other	130.9	ICD-9 Diagnosis
Serious infection	Other	131.00	ICD-9 Diagnosis
Serious infection	Other	131.01	ICD-9 Diagnosis
Serious infection	Other	131.02	ICD-9 Diagnosis
Serious infection	Other	131.03	ICD-9 Diagnosis
Serious infection	Other	131.09	ICD-9 Diagnosis
Serious infection	Other	131.8	ICD-9 Diagnosis
Serious infection	Other	131.9	ICD-9 Diagnosis
Serious infection	Other	132.0	ICD-9 Diagnosis
Serious infection	Other	132.1	ICD-9 Diagnosis
Serious infection	Other	132.2	ICD-9 Diagnosis
Serious infection	Other	132.3	ICD-9 Diagnosis
Serious infection	Other	132.9	ICD-9 Diagnosis
Serious infection	Other	133.0	ICD-9 Diagnosis
Serious infection	Other	133.8	ICD-9 Diagnosis
Serious infection	Other	133.9	ICD-9 Diagnosis
Serious infection	Other	134.0	ICD-9 Diagnosis
Serious infection	Other	134.1	ICD-9 Diagnosis
Serious infection	Other	134.2	ICD-9 Diagnosis
Serious infection	Other	134.8	ICD-9 Diagnosis
Serious infection	Other	134.9	ICD-9 Diagnosis
Serious infection	Other	135	ICD-9 Diagnosis
Serious infection	Other	136.0	ICD-9 Diagnosis
Serious infection	Other	136.1	ICD-9 Diagnosis
Serious infection	Other	136.2	ICD-9 Diagnosis
Serious infection	Other	136.21	ICD-9 Diagnosis
Serious infection	Other	136.29	ICD-9 Diagnosis
Serious infection	Other	136.4	ICD-9 Diagnosis
Serious infection	Other	136.5	ICD-9 Diagnosis
Serious infection	Other	136.8	ICD-9 Diagnosis
Serious infection	Other	136.9	ICD-9 Diagnosis
Serious infection	Other	139.8	ICD-9 Diagnosis
Serious infection	Other	1008.9	ICD-9 Diagnosis
Serious infection	Other	V12.0	ICD-9 Diagnosis
Serious infection	Other	V12.00	ICD-9 Diagnosis
Serious infection	Other	V12.03	ICD-9 Diagnosis
Serious infection	Other	V12.09	ICD-9 Diagnosis
Serious infection	Peritonitis	032.83	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Peritonitis	567.0	ICD-9 Diagnosis
Serious infection	Peritonitis	567.1	ICD-9 Diagnosis
Serious infection	Peritonitis	567.2	ICD-9 Diagnosis
Serious infection	Peritonitis	567.21	ICD-9 Diagnosis
Serious infection	Peritonitis	567.22	ICD-9 Diagnosis
Serious infection	Peritonitis	567.23	ICD-9 Diagnosis
Serious infection	Peritonitis	567.29	ICD-9 Diagnosis
Serious infection	Peritonitis	567.38	ICD-9 Diagnosis
Serious infection	Peritonitis	567.39	ICD-9 Diagnosis
Serious infection	Peritonitis	567.8	ICD-9 Diagnosis
Serious infection	Peritonitis	567.81	ICD-9 Diagnosis
Serious infection	Peritonitis	567.82	ICD-9 Diagnosis
Serious infection	Peritonitis	567.89	ICD-9 Diagnosis
Serious infection	Peritonitis	567.9	ICD-9 Diagnosis
Serious infection	Peritonitis	569.5	ICD-9 Diagnosis
Serious infection	Pneumonia	003.22	ICD-9 Diagnosis
Serious infection	Pneumonia	020.3	ICD-9 Diagnosis
Serious infection	Pneumonia	020.4	ICD-9 Diagnosis
Serious infection	Pneumonia	020.5	ICD-9 Diagnosis
Serious infection	Pneumonia	021.2	ICD-9 Diagnosis
Serious infection	Pneumonia	022.1	ICD-9 Diagnosis
Serious infection	Pneumonia	031.0	ICD-9 Diagnosis
Serious infection	Pneumonia	039.1	ICD-9 Diagnosis
Serious infection	Pneumonia	052.1	ICD-9 Diagnosis
Serious infection	Pneumonia	055.1	ICD-9 Diagnosis
Serious infection	Pneumonia	073.0	ICD-9 Diagnosis
Serious infection	Pneumonia	083.0	ICD-9 Diagnosis
Serious infection	Pneumonia	112.4	ICD-9 Diagnosis
Serious infection	Pneumonia	114.0	ICD-9 Diagnosis
Serious infection	Pneumonia	114.4	ICD-9 Diagnosis
Serious infection	Pneumonia	114.5	ICD-9 Diagnosis
Serious infection	Pneumonia	115.05	ICD-9 Diagnosis
Serious infection	Pneumonia	115.15	ICD-9 Diagnosis
Serious infection	Pneumonia	115.95	ICD-9 Diagnosis
Serious infection	Pneumonia	130.4	ICD-9 Diagnosis
Serious infection	Pneumonia	136.3	ICD-9 Diagnosis
Serious infection	Pneumonia	480.0	ICD-9 Diagnosis
Serious infection	Pneumonia	480.1	ICD-9 Diagnosis
Serious infection	Pneumonia	480.2	ICD-9 Diagnosis
Serious infection	Pneumonia	480.3	ICD-9 Diagnosis
Serious infection	Pneumonia	480.8	ICD-9 Diagnosis
Serious infection	Pneumonia	480.9	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Pneumonia	481	ICD-9 Diagnosis
Serious infection	Pneumonia	482.0	ICD-9 Diagnosis
Serious infection	Pneumonia	482.1	ICD-9 Diagnosis
Serious infection	Pneumonia	482.2	ICD-9 Diagnosis
Serious infection	Pneumonia	482.3	ICD-9 Diagnosis
Serious infection	Pneumonia	482.30	ICD-9 Diagnosis
Serious infection	Pneumonia	482.31	ICD-9 Diagnosis
Serious infection	Pneumonia	482.32	ICD-9 Diagnosis
Serious infection	Pneumonia	482.39	ICD-9 Diagnosis
Serious infection	Pneumonia	482.4	ICD-9 Diagnosis
Serious infection	Pneumonia	482.40	ICD-9 Diagnosis
Serious infection	Pneumonia	482.41	ICD-9 Diagnosis
Serious infection	Pneumonia	482.42	ICD-9 Diagnosis
Serious infection	Pneumonia	482.49	ICD-9 Diagnosis
Serious infection	Pneumonia	482.8	ICD-9 Diagnosis
Serious infection	Pneumonia	482.81	ICD-9 Diagnosis
Serious infection	Pneumonia	482.82	ICD-9 Diagnosis
Serious infection	Pneumonia	482.83	ICD-9 Diagnosis
Serious infection	Pneumonia	482.84	ICD-9 Diagnosis
Serious infection	Pneumonia	482.89	ICD-9 Diagnosis
Serious infection	Pneumonia	482.9	ICD-9 Diagnosis
Serious infection	Pneumonia	483	ICD-9 Diagnosis
Serious infection	Pneumonia	483.0	ICD-9 Diagnosis
Serious infection	Pneumonia	483.1	ICD-9 Diagnosis
Serious infection	Pneumonia	483.8	ICD-9 Diagnosis
Serious infection	Pneumonia	484.1	ICD-9 Diagnosis
Serious infection	Pneumonia	484.3	ICD-9 Diagnosis
Serious infection	Pneumonia	484.5	ICD-9 Diagnosis
Serious infection	Pneumonia	484.6	ICD-9 Diagnosis
Serious infection	Pneumonia	484.7	ICD-9 Diagnosis
Serious infection	Pneumonia	484.8	ICD-9 Diagnosis
Serious infection	Pneumonia	485	ICD-9 Diagnosis
Serious infection	Pneumonia	486	ICD-9 Diagnosis
Serious infection	Pneumonia	513.0	ICD-9 Diagnosis
Serious infection	Pneumonia	517.1	ICD-9 Diagnosis
Serious infection	Complication from procedures	276.61	ICD-9 Diagnosis
Serious infection	Complication from procedures	277.83	ICD-9 Diagnosis
Serious infection	Complication from procedures	277.88	ICD-9 Diagnosis
Serious infection	Complication from procedures	285.3	ICD-9 Diagnosis
Serious infection	Complication from procedures	287.41	ICD-9 Diagnosis
Serious infection	Complication from procedures	349.0	ICD-9 Diagnosis
Serious infection	Complication from procedures	349.1	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Complication from procedures	349.31	ICD-9 Diagnosis
Serious infection	Complication from procedures	415.11	ICD-9 Diagnosis
Serious infection	Complication from procedures	429.4	ICD-9 Diagnosis
Serious infection	Complication from procedures	458.2	ICD-9 Diagnosis
Serious infection	Complication from procedures	458.21	ICD-9 Diagnosis
Serious infection	Complication from procedures	458.29	ICD-9 Diagnosis
Serious infection	Complication from procedures	512.1	ICD-9 Diagnosis
Serious infection	Complication from procedures	512.2	ICD-9 Diagnosis
Serious infection	Complication from procedures	518.7	ICD-9 Diagnosis
Serious infection	Complication from procedures	519.0	ICD-9 Diagnosis
Serious infection	Complication from procedures	519.00	ICD-9 Diagnosis
Serious infection	Complication from procedures	519.01	ICD-9 Diagnosis
Serious infection	Complication from procedures	519.02	ICD-9 Diagnosis
Serious infection	Complication from procedures	519.09	ICD-9 Diagnosis
Serious infection	Complication from procedures	530.86	ICD-9 Diagnosis
Serious infection	Complication from procedures	530.87	ICD-9 Diagnosis
Serious infection	Complication from procedures	536.40	ICD-9 Diagnosis
Serious infection	Complication from procedures	536.41	ICD-9 Diagnosis
Serious infection	Complication from procedures	536.42	ICD-9 Diagnosis
Serious infection	Complication from procedures	536.49	ICD-9 Diagnosis
Serious infection	Complication from procedures	539.01	ICD-9 Diagnosis
Serious infection	Complication from procedures	539.09	ICD-9 Diagnosis
Serious infection	Complication from procedures	539.81	ICD-9 Diagnosis
Serious infection	Complication from procedures	539.89	ICD-9 Diagnosis
Serious infection	Complication from procedures	564.2	ICD-9 Diagnosis
Serious infection	Complication from procedures	564.3	ICD-9 Diagnosis
Serious infection	Complication from procedures	564.4	ICD-9 Diagnosis
Serious infection	Complication from procedures	569.6	ICD-9 Diagnosis
Serious infection	Complication from procedures	569.62	ICD-9 Diagnosis
Serious infection	Complication from procedures	569.71	ICD-9 Diagnosis
Serious infection	Complication from procedures	569.79	ICD-9 Diagnosis
Serious infection	Complication from procedures	579.3	ICD-9 Diagnosis
Serious infection	Complication from procedures	596.81	ICD-9 Diagnosis
Serious infection	Complication from procedures	780.62	ICD-9 Diagnosis
Serious infection	Complication from procedures	780.63	ICD-9 Diagnosis
Serious infection	Complication from procedures	780.66	ICD-9 Diagnosis
Serious infection	Complication from procedures	909.3	ICD-9 Diagnosis
Serious infection	Complication from procedures	995.24	ICD-9 Diagnosis
Serious infection	Complication from procedures	995.4	ICD-9 Diagnosis
Serious infection	Complication from procedures	995.86	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.0	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.00	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Complication from procedures	997.01	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.02	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.09	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.1	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.2	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.3	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.31	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.32	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.39	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.4	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.41	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.49	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.5	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.60	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.61	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.62	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.69	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.71	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.72	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.79	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.9	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.91	ICD-9 Diagnosis
Serious infection	Complication from procedures	997.99	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.0	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.00	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.01	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.02	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.09	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.1	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.11	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.12	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.13	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.2	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.3	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.30	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.31	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.32	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.33	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.4	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.5	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.51	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.59	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Complication from procedures	998.6	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.7	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.8	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.81	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.82	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.83	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.89	ICD-9 Diagnosis
Serious infection	Complication from procedures	998.9	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.0	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.1	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.2	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.3	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.34	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.39	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.4	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.41	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.42	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.49	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.5	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.51	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.52	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.59	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.6	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.60	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.61	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.62	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.63	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.69	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.7	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.70	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.71	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.72	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.73	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.74	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.75	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.76	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.77	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.78	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.79	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.8	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.80	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.81	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Complication from procedures	999.82	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.83	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.84	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.85	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.88	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.89	ICD-9 Diagnosis
Serious infection	Complication from procedures	999.9	ICD-9 Diagnosis
Serious infection	Complication from procedures	V15.53	ICD-9 Diagnosis
Serious infection	Complication from procedures	V15.80	ICD-9 Diagnosis
Serious infection	Complication from procedures	V15.83	ICD-9 Diagnosis
Serious infection	Complication from procedures	V90.01	ICD-9 Diagnosis
Serious infection	Complication from procedures	V90.09	ICD-9 Diagnosis
Serious infection	Septicemia	003.1	ICD-9 Diagnosis
Serious infection	Septicemia	020.2	ICD-9 Diagnosis
Serious infection	Septicemia	022.3	ICD-9 Diagnosis
Serious infection	Septicemia	036.2	ICD-9 Diagnosis
Serious infection	Septicemia	038.0	ICD-9 Diagnosis
Serious infection	Septicemia	038.1	ICD-9 Diagnosis
Serious infection	Septicemia	038.10	ICD-9 Diagnosis
Serious infection	Septicemia	038.11	ICD-9 Diagnosis
Serious infection	Septicemia	038.12	ICD-9 Diagnosis
Serious infection	Septicemia	038.19	ICD-9 Diagnosis
Serious infection	Septicemia	038.2	ICD-9 Diagnosis
Serious infection	Septicemia	038.3	ICD-9 Diagnosis
Serious infection	Septicemia	038.40	ICD-9 Diagnosis
Serious infection	Septicemia	038.41	ICD-9 Diagnosis
Serious infection	Septicemia	038.42	ICD-9 Diagnosis
Serious infection	Septicemia	038.43	ICD-9 Diagnosis
Serious infection	Septicemia	038.44	ICD-9 Diagnosis
Serious infection	Septicemia	038.49	ICD-9 Diagnosis
Serious infection	Septicemia	038.8	ICD-9 Diagnosis
Serious infection	Septicemia	038.9	ICD-9 Diagnosis
Serious infection	Septicemia	054.5	ICD-9 Diagnosis
Serious infection	Septicemia	449	ICD-9 Diagnosis
Serious infection	Septicemia	790.7	ICD-9 Diagnosis
Serious infection	Septicemia	995.91	ICD-9 Diagnosis
Serious infection	Septicemia	995.92	ICD-9 Diagnosis
Serious infection	Shock	785.50	ICD-9 Diagnosis
Serious infection	Shock	785.51	ICD-9 Diagnosis
Serious infection	Shock	785.52	ICD-9 Diagnosis
Serious infection	Shock	785.59	ICD-9 Diagnosis
Serious infection	SKIN	020.1	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	SKIN	021.0	ICD-9 Diagnosis
Serious infection	SKIN	022.0	ICD-9 Diagnosis
Serious infection	SKIN	031.1	ICD-9 Diagnosis
Serious infection	SKIN	032.85	ICD-9 Diagnosis
Serious infection	SKIN	035	ICD-9 Diagnosis
Serious infection	SKIN	039.0	ICD-9 Diagnosis
Serious infection	SKIN	680.0	ICD-9 Diagnosis
Serious infection	SKIN	680.1	ICD-9 Diagnosis
Serious infection	SKIN	680.2	ICD-9 Diagnosis
Serious infection	SKIN	680.3	ICD-9 Diagnosis
Serious infection	SKIN	680.4	ICD-9 Diagnosis
Serious infection	SKIN	680.5	ICD-9 Diagnosis
Serious infection	SKIN	680.6	ICD-9 Diagnosis
Serious infection	SKIN	680.7	ICD-9 Diagnosis
Serious infection	SKIN	680.8	ICD-9 Diagnosis
Serious infection	SKIN	680.9	ICD-9 Diagnosis
Serious infection	SKIN	681.00	ICD-9 Diagnosis
Serious infection	SKIN	681.01	ICD-9 Diagnosis
Serious infection	SKIN	681.02	ICD-9 Diagnosis
Serious infection	SKIN	681.10	ICD-9 Diagnosis
Serious infection	SKIN	681.11	ICD-9 Diagnosis
Serious infection	SKIN	681.9	ICD-9 Diagnosis
Serious infection	SKIN	682.0	ICD-9 Diagnosis
Serious infection	SKIN	682.1	ICD-9 Diagnosis
Serious infection	SKIN	682.2	ICD-9 Diagnosis
Serious infection	SKIN	682.3	ICD-9 Diagnosis
Serious infection	SKIN	682.4	ICD-9 Diagnosis
Serious infection	SKIN	682.5	ICD-9 Diagnosis
Serious infection	SKIN	682.6	ICD-9 Diagnosis
Serious infection	SKIN	682.7	ICD-9 Diagnosis
Serious infection	SKIN	682.8	ICD-9 Diagnosis
Serious infection	SKIN	682.9	ICD-9 Diagnosis
Serious infection	SKIN	684	ICD-9 Diagnosis
Serious infection	SKIN	685.0	ICD-9 Diagnosis
Serious infection	SKIN	685.1	ICD-9 Diagnosis
Serious infection	SKIN	686.0	ICD-9 Diagnosis
Serious infection	SKIN	686.00	ICD-9 Diagnosis
Serious infection	SKIN	686.01	ICD-9 Diagnosis
Serious infection	SKIN	686.09	ICD-9 Diagnosis
Serious infection	SKIN	686.1	ICD-9 Diagnosis
Serious infection	SKIN	686.8	ICD-9 Diagnosis
Serious infection	SKIN	686.9	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	STD	090.0	ICD-9 Diagnosis
Serious infection	STD	090.1	ICD-9 Diagnosis
Serious infection	STD	090.2	ICD-9 Diagnosis
Serious infection	STD	090.3	ICD-9 Diagnosis
Serious infection	STD	090.40	ICD-9 Diagnosis
Serious infection	STD	090.41	ICD-9 Diagnosis
Serious infection	STD	090.42	ICD-9 Diagnosis
Serious infection	STD	090.49	ICD-9 Diagnosis
Serious infection	STD	090.5	ICD-9 Diagnosis
Serious infection	STD	090.6	ICD-9 Diagnosis
Serious infection	STD	090.7	ICD-9 Diagnosis
Serious infection	STD	090.9	ICD-9 Diagnosis
Serious infection	STD	091.0	ICD-9 Diagnosis
Serious infection	STD	091.1	ICD-9 Diagnosis
Serious infection	STD	091.2	ICD-9 Diagnosis
Serious infection	STD	091.3	ICD-9 Diagnosis
Serious infection	STD	091.4	ICD-9 Diagnosis
Serious infection	STD	091.50	ICD-9 Diagnosis
Serious infection	STD	091.51	ICD-9 Diagnosis
Serious infection	STD	091.52	ICD-9 Diagnosis
Serious infection	STD	091.61	ICD-9 Diagnosis
Serious infection	STD	091.62	ICD-9 Diagnosis
Serious infection	STD	091.69	ICD-9 Diagnosis
Serious infection	STD	091.7	ICD-9 Diagnosis
Serious infection	STD	091.81	ICD-9 Diagnosis
Serious infection	STD	091.82	ICD-9 Diagnosis
Serious infection	STD	091.89	ICD-9 Diagnosis
Serious infection	STD	091.9	ICD-9 Diagnosis
Serious infection	STD	092.0	ICD-9 Diagnosis
Serious infection	STD	092.9	ICD-9 Diagnosis
Serious infection	STD	093.0	ICD-9 Diagnosis
Serious infection	STD	093.1	ICD-9 Diagnosis
Serious infection	STD	093.20	ICD-9 Diagnosis
Serious infection	STD	093.21	ICD-9 Diagnosis
Serious infection	STD	093.22	ICD-9 Diagnosis
Serious infection	STD	093.23	ICD-9 Diagnosis
Serious infection	STD	093.24	ICD-9 Diagnosis
Serious infection	STD	093.81	ICD-9 Diagnosis
Serious infection	STD	093.82	ICD-9 Diagnosis
Serious infection	STD	093.89	ICD-9 Diagnosis
Serious infection	STD	093.9	ICD-9 Diagnosis
Serious infection	STD	094.0	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	STD	094.1	ICD-9 Diagnosis
Serious infection	STD	094.2	ICD-9 Diagnosis
Serious infection	STD	094.3	ICD-9 Diagnosis
Serious infection	STD	094.81	ICD-9 Diagnosis
Serious infection	STD	094.82	ICD-9 Diagnosis
Serious infection	STD	094.83	ICD-9 Diagnosis
Serious infection	STD	094.84	ICD-9 Diagnosis
Serious infection	STD	094.85	ICD-9 Diagnosis
Serious infection	STD	094.86	ICD-9 Diagnosis
Serious infection	STD	094.87	ICD-9 Diagnosis
Serious infection	STD	094.89	ICD-9 Diagnosis
Serious infection	STD	094.9	ICD-9 Diagnosis
Serious infection	STD	095.0	ICD-9 Diagnosis
Serious infection	STD	095.1	ICD-9 Diagnosis
Serious infection	STD	095.2	ICD-9 Diagnosis
Serious infection	STD	095.3	ICD-9 Diagnosis
Serious infection	STD	095.4	ICD-9 Diagnosis
Serious infection	STD	095.5	ICD-9 Diagnosis
Serious infection	STD	095.6	ICD-9 Diagnosis
Serious infection	STD	095.7	ICD-9 Diagnosis
Serious infection	STD	095.8	ICD-9 Diagnosis
Serious infection	STD	095.9	ICD-9 Diagnosis
Serious infection	STD	096	ICD-9 Diagnosis
Serious infection	STD	097.0	ICD-9 Diagnosis
Serious infection	STD	097.1	ICD-9 Diagnosis
Serious infection	STD	097.9	ICD-9 Diagnosis
Serious infection	STD	098.0	ICD-9 Diagnosis
Serious infection	STD	098.10	ICD-9 Diagnosis
Serious infection	STD	098.11	ICD-9 Diagnosis
Serious infection	STD	098.12	ICD-9 Diagnosis
Serious infection	STD	098.13	ICD-9 Diagnosis
Serious infection	STD	098.14	ICD-9 Diagnosis
Serious infection	STD	098.15	ICD-9 Diagnosis
Serious infection	STD	098.16	ICD-9 Diagnosis
Serious infection	STD	098.17	ICD-9 Diagnosis
Serious infection	STD	098.19	ICD-9 Diagnosis
Serious infection	STD	098.2	ICD-9 Diagnosis
Serious infection	STD	098.30	ICD-9 Diagnosis
Serious infection	STD	098.31	ICD-9 Diagnosis
Serious infection	STD	098.32	ICD-9 Diagnosis
Serious infection	STD	098.33	ICD-9 Diagnosis
Serious infection	STD	098.34	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	STD	098.35	ICD-9 Diagnosis
Serious infection	STD	098.36	ICD-9 Diagnosis
Serious infection	STD	098.37	ICD-9 Diagnosis
Serious infection	STD	098.39	ICD-9 Diagnosis
Serious infection	STD	098.40	ICD-9 Diagnosis
Serious infection	STD	098.41	ICD-9 Diagnosis
Serious infection	STD	098.42	ICD-9 Diagnosis
Serious infection	STD	098.43	ICD-9 Diagnosis
Serious infection	STD	098.49	ICD-9 Diagnosis
Serious infection	STD	098.50	ICD-9 Diagnosis
Serious infection	STD	098.51	ICD-9 Diagnosis
Serious infection	STD	098.52	ICD-9 Diagnosis
Serious infection	STD	098.53	ICD-9 Diagnosis
Serious infection	STD	098.59	ICD-9 Diagnosis
Serious infection	STD	098.6	ICD-9 Diagnosis
Serious infection	STD	098.7	ICD-9 Diagnosis
Serious infection	STD	098.81	ICD-9 Diagnosis
Serious infection	STD	098.82	ICD-9 Diagnosis
Serious infection	STD	098.83	ICD-9 Diagnosis
Serious infection	STD	098.84	ICD-9 Diagnosis
Serious infection	STD	098.85	ICD-9 Diagnosis
Serious infection	STD	098.86	ICD-9 Diagnosis
Serious infection	STD	098.89	ICD-9 Diagnosis
Serious infection	STD	099.0	ICD-9 Diagnosis
Serious infection	STD	099.1	ICD-9 Diagnosis
Serious infection	STD	099.2	ICD-9 Diagnosis
Serious infection	STD	099.3	ICD-9 Diagnosis
Serious infection	STD	099.4	ICD-9 Diagnosis
Serious infection	STD	099.40	ICD-9 Diagnosis
Serious infection	STD	099.41	ICD-9 Diagnosis
Serious infection	STD	099.49	ICD-9 Diagnosis
Serious infection	STD	099.50	ICD-9 Diagnosis
Serious infection	STD	099.51	ICD-9 Diagnosis
Serious infection	STD	099.52	ICD-9 Diagnosis
Serious infection	STD	099.53	ICD-9 Diagnosis
Serious infection	STD	099.54	ICD-9 Diagnosis
Serious infection	STD	099.55	ICD-9 Diagnosis
Serious infection	STD	099.56	ICD-9 Diagnosis
Serious infection	STD	099.59	ICD-9 Diagnosis
Serious infection	STD	099.8	ICD-9 Diagnosis
Serious infection	STD	099.9	ICD-9 Diagnosis
Serious infection	STD	795.05	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	STD	795.15	ICD-9 Diagnosis
Serious infection	STD	795.19	ICD-9 Diagnosis
Serious infection	STD	796.75	ICD-9 Diagnosis
Serious infection	STD	796.79	ICD-9 Diagnosis
Serious infection	TB	010.00	ICD-9 Diagnosis
Serious infection	TB	010.01	ICD-9 Diagnosis
Serious infection	TB	010.02	ICD-9 Diagnosis
Serious infection	TB	010.03	ICD-9 Diagnosis
Serious infection	TB	010.04	ICD-9 Diagnosis
Serious infection	TB	010.05	ICD-9 Diagnosis
Serious infection	TB	010.06	ICD-9 Diagnosis
Serious infection	TB	010.10	ICD-9 Diagnosis
Serious infection	TB	010.11	ICD-9 Diagnosis
Serious infection	TB	010.12	ICD-9 Diagnosis
Serious infection	TB	010.13	ICD-9 Diagnosis
Serious infection	TB	010.14	ICD-9 Diagnosis
Serious infection	TB	010.15	ICD-9 Diagnosis
Serious infection	TB	010.16	ICD-9 Diagnosis
Serious infection	TB	010.80	ICD-9 Diagnosis
Serious infection	TB	010.81	ICD-9 Diagnosis
Serious infection	TB	010.82	ICD-9 Diagnosis
Serious infection	TB	010.83	ICD-9 Diagnosis
Serious infection	TB	010.84	ICD-9 Diagnosis
Serious infection	TB	010.85	ICD-9 Diagnosis
Serious infection	TB	010.86	ICD-9 Diagnosis
Serious infection	TB	010.90	ICD-9 Diagnosis
Serious infection	TB	010.91	ICD-9 Diagnosis
Serious infection	TB	010.92	ICD-9 Diagnosis
Serious infection	TB	010.93	ICD-9 Diagnosis
Serious infection	TB	010.94	ICD-9 Diagnosis
Serious infection	TB	010.95	ICD-9 Diagnosis
Serious infection	TB	010.96	ICD-9 Diagnosis
Serious infection	TB	011.00	ICD-9 Diagnosis
Serious infection	TB	011.01	ICD-9 Diagnosis
Serious infection	TB	011.02	ICD-9 Diagnosis
Serious infection	TB	011.03	ICD-9 Diagnosis
Serious infection	TB	011.04	ICD-9 Diagnosis
Serious infection	TB	011.05	ICD-9 Diagnosis
Serious infection	TB	011.06	ICD-9 Diagnosis
Serious infection	TB	011.10	ICD-9 Diagnosis
Serious infection	TB	011.11	ICD-9 Diagnosis
Serious infection	TB	011.12	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	011.13	ICD-9 Diagnosis
Serious infection	TB	011.14	ICD-9 Diagnosis
Serious infection	TB	011.15	ICD-9 Diagnosis
Serious infection	TB	011.16	ICD-9 Diagnosis
Serious infection	TB	011.20	ICD-9 Diagnosis
Serious infection	TB	011.21	ICD-9 Diagnosis
Serious infection	TB	011.22	ICD-9 Diagnosis
Serious infection	TB	011.23	ICD-9 Diagnosis
Serious infection	TB	011.24	ICD-9 Diagnosis
Serious infection	TB	011.25	ICD-9 Diagnosis
Serious infection	TB	011.26	ICD-9 Diagnosis
Serious infection	TB	011.30	ICD-9 Diagnosis
Serious infection	TB	011.31	ICD-9 Diagnosis
Serious infection	TB	011.32	ICD-9 Diagnosis
Serious infection	TB	011.33	ICD-9 Diagnosis
Serious infection	TB	011.34	ICD-9 Diagnosis
Serious infection	TB	011.35	ICD-9 Diagnosis
Serious infection	TB	011.36	ICD-9 Diagnosis
Serious infection	TB	011.40	ICD-9 Diagnosis
Serious infection	TB	011.41	ICD-9 Diagnosis
Serious infection	TB	011.42	ICD-9 Diagnosis
Serious infection	TB	011.43	ICD-9 Diagnosis
Serious infection	TB	011.44	ICD-9 Diagnosis
Serious infection	TB	011.45	ICD-9 Diagnosis
Serious infection	TB	011.46	ICD-9 Diagnosis
Serious infection	TB	011.50	ICD-9 Diagnosis
Serious infection	TB	011.51	ICD-9 Diagnosis
Serious infection	TB	011.52	ICD-9 Diagnosis
Serious infection	TB	011.53	ICD-9 Diagnosis
Serious infection	TB	011.54	ICD-9 Diagnosis
Serious infection	TB	011.55	ICD-9 Diagnosis
Serious infection	TB	011.56	ICD-9 Diagnosis
Serious infection	TB	011.60	ICD-9 Diagnosis
Serious infection	TB	011.61	ICD-9 Diagnosis
Serious infection	TB	011.62	ICD-9 Diagnosis
Serious infection	TB	011.63	ICD-9 Diagnosis
Serious infection	TB	011.64	ICD-9 Diagnosis
Serious infection	TB	011.65	ICD-9 Diagnosis
Serious infection	TB	011.66	ICD-9 Diagnosis
Serious infection	TB	011.70	ICD-9 Diagnosis
Serious infection	TB	011.71	ICD-9 Diagnosis
Serious infection	TB	011.72	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	011.73	ICD-9 Diagnosis
Serious infection	TB	011.74	ICD-9 Diagnosis
Serious infection	TB	011.75	ICD-9 Diagnosis
Serious infection	TB	011.76	ICD-9 Diagnosis
Serious infection	TB	011.80	ICD-9 Diagnosis
Serious infection	TB	011.81	ICD-9 Diagnosis
Serious infection	TB	011.82	ICD-9 Diagnosis
Serious infection	TB	011.83	ICD-9 Diagnosis
Serious infection	TB	011.84	ICD-9 Diagnosis
Serious infection	TB	011.85	ICD-9 Diagnosis
Serious infection	TB	011.86	ICD-9 Diagnosis
Serious infection	TB	011.90	ICD-9 Diagnosis
Serious infection	TB	011.91	ICD-9 Diagnosis
Serious infection	TB	011.92	ICD-9 Diagnosis
Serious infection	TB	011.93	ICD-9 Diagnosis
Serious infection	TB	011.94	ICD-9 Diagnosis
Serious infection	TB	011.95	ICD-9 Diagnosis
Serious infection	TB	011.96	ICD-9 Diagnosis
Serious infection	TB	012.00	ICD-9 Diagnosis
Serious infection	TB	012.01	ICD-9 Diagnosis
Serious infection	TB	012.02	ICD-9 Diagnosis
Serious infection	TB	012.03	ICD-9 Diagnosis
Serious infection	TB	012.04	ICD-9 Diagnosis
Serious infection	TB	012.05	ICD-9 Diagnosis
Serious infection	TB	012.06	ICD-9 Diagnosis
Serious infection	TB	012.10	ICD-9 Diagnosis
Serious infection	TB	012.11	ICD-9 Diagnosis
Serious infection	TB	012.12	ICD-9 Diagnosis
Serious infection	TB	012.13	ICD-9 Diagnosis
Serious infection	TB	012.14	ICD-9 Diagnosis
Serious infection	TB	012.15	ICD-9 Diagnosis
Serious infection	TB	012.16	ICD-9 Diagnosis
Serious infection	TB	012.20	ICD-9 Diagnosis
Serious infection	TB	012.21	ICD-9 Diagnosis
Serious infection	TB	012.22	ICD-9 Diagnosis
Serious infection	TB	012.23	ICD-9 Diagnosis
Serious infection	TB	012.24	ICD-9 Diagnosis
Serious infection	TB	012.25	ICD-9 Diagnosis
Serious infection	TB	012.26	ICD-9 Diagnosis
Serious infection	TB	012.30	ICD-9 Diagnosis
Serious infection	TB	012.31	ICD-9 Diagnosis
Serious infection	TB	012.32	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	012.33	ICD-9 Diagnosis
Serious infection	TB	012.34	ICD-9 Diagnosis
Serious infection	TB	012.35	ICD-9 Diagnosis
Serious infection	TB	012.36	ICD-9 Diagnosis
Serious infection	TB	012.80	ICD-9 Diagnosis
Serious infection	TB	012.81	ICD-9 Diagnosis
Serious infection	TB	012.82	ICD-9 Diagnosis
Serious infection	TB	012.83	ICD-9 Diagnosis
Serious infection	TB	012.84	ICD-9 Diagnosis
Serious infection	TB	012.85	ICD-9 Diagnosis
Serious infection	TB	012.86	ICD-9 Diagnosis
Serious infection	TB	013.00	ICD-9 Diagnosis
Serious infection	TB	013.01	ICD-9 Diagnosis
Serious infection	TB	013.02	ICD-9 Diagnosis
Serious infection	TB	013.03	ICD-9 Diagnosis
Serious infection	TB	013.04	ICD-9 Diagnosis
Serious infection	TB	013.05	ICD-9 Diagnosis
Serious infection	TB	013.06	ICD-9 Diagnosis
Serious infection	TB	013.10	ICD-9 Diagnosis
Serious infection	TB	013.11	ICD-9 Diagnosis
Serious infection	TB	013.12	ICD-9 Diagnosis
Serious infection	TB	013.13	ICD-9 Diagnosis
Serious infection	TB	013.14	ICD-9 Diagnosis
Serious infection	TB	013.15	ICD-9 Diagnosis
Serious infection	TB	013.16	ICD-9 Diagnosis
Serious infection	TB	013.20	ICD-9 Diagnosis
Serious infection	TB	013.21	ICD-9 Diagnosis
Serious infection	TB	013.22	ICD-9 Diagnosis
Serious infection	TB	013.23	ICD-9 Diagnosis
Serious infection	TB	013.24	ICD-9 Diagnosis
Serious infection	TB	013.25	ICD-9 Diagnosis
Serious infection	TB	013.26	ICD-9 Diagnosis
Serious infection	TB	013.30	ICD-9 Diagnosis
Serious infection	TB	013.31	ICD-9 Diagnosis
Serious infection	TB	013.32	ICD-9 Diagnosis
Serious infection	TB	013.33	ICD-9 Diagnosis
Serious infection	TB	013.34	ICD-9 Diagnosis
Serious infection	TB	013.35	ICD-9 Diagnosis
Serious infection	TB	013.36	ICD-9 Diagnosis
Serious infection	TB	013.40	ICD-9 Diagnosis
Serious infection	TB	013.41	ICD-9 Diagnosis
Serious infection	TB	013.42	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	013.43	ICD-9 Diagnosis
Serious infection	TB	013.44	ICD-9 Diagnosis
Serious infection	TB	013.45	ICD-9 Diagnosis
Serious infection	TB	013.46	ICD-9 Diagnosis
Serious infection	TB	013.50	ICD-9 Diagnosis
Serious infection	TB	013.51	ICD-9 Diagnosis
Serious infection	TB	013.52	ICD-9 Diagnosis
Serious infection	TB	013.53	ICD-9 Diagnosis
Serious infection	TB	013.54	ICD-9 Diagnosis
Serious infection	TB	013.55	ICD-9 Diagnosis
Serious infection	TB	013.56	ICD-9 Diagnosis
Serious infection	TB	013.60	ICD-9 Diagnosis
Serious infection	TB	013.61	ICD-9 Diagnosis
Serious infection	TB	013.62	ICD-9 Diagnosis
Serious infection	TB	013.63	ICD-9 Diagnosis
Serious infection	TB	013.64	ICD-9 Diagnosis
Serious infection	TB	013.65	ICD-9 Diagnosis
Serious infection	TB	013.66	ICD-9 Diagnosis
Serious infection	TB	013.80	ICD-9 Diagnosis
Serious infection	TB	013.81	ICD-9 Diagnosis
Serious infection	TB	013.82	ICD-9 Diagnosis
Serious infection	TB	013.83	ICD-9 Diagnosis
Serious infection	TB	013.84	ICD-9 Diagnosis
Serious infection	TB	013.85	ICD-9 Diagnosis
Serious infection	TB	013.86	ICD-9 Diagnosis
Serious infection	TB	013.90	ICD-9 Diagnosis
Serious infection	TB	013.91	ICD-9 Diagnosis
Serious infection	TB	013.92	ICD-9 Diagnosis
Serious infection	TB	013.93	ICD-9 Diagnosis
Serious infection	TB	013.94	ICD-9 Diagnosis
Serious infection	TB	013.95	ICD-9 Diagnosis
Serious infection	TB	013.96	ICD-9 Diagnosis
Serious infection	TB	014.00	ICD-9 Diagnosis
Serious infection	TB	014.01	ICD-9 Diagnosis
Serious infection	TB	014.02	ICD-9 Diagnosis
Serious infection	TB	014.03	ICD-9 Diagnosis
Serious infection	TB	014.04	ICD-9 Diagnosis
Serious infection	TB	014.05	ICD-9 Diagnosis
Serious infection	TB	014.06	ICD-9 Diagnosis
Serious infection	TB	014.80	ICD-9 Diagnosis
Serious infection	TB	014.81	ICD-9 Diagnosis
Serious infection	TB	014.82	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	014.83	ICD-9 Diagnosis
Serious infection	TB	014.84	ICD-9 Diagnosis
Serious infection	TB	014.85	ICD-9 Diagnosis
Serious infection	TB	014.86	ICD-9 Diagnosis
Serious infection	TB	015.00	ICD-9 Diagnosis
Serious infection	TB	015.01	ICD-9 Diagnosis
Serious infection	TB	015.02	ICD-9 Diagnosis
Serious infection	TB	015.03	ICD-9 Diagnosis
Serious infection	TB	015.04	ICD-9 Diagnosis
Serious infection	TB	015.05	ICD-9 Diagnosis
Serious infection	TB	015.06	ICD-9 Diagnosis
Serious infection	TB	015.10	ICD-9 Diagnosis
Serious infection	TB	015.11	ICD-9 Diagnosis
Serious infection	TB	015.12	ICD-9 Diagnosis
Serious infection	TB	015.13	ICD-9 Diagnosis
Serious infection	TB	015.14	ICD-9 Diagnosis
Serious infection	TB	015.15	ICD-9 Diagnosis
Serious infection	TB	015.16	ICD-9 Diagnosis
Serious infection	TB	015.20	ICD-9 Diagnosis
Serious infection	TB	015.21	ICD-9 Diagnosis
Serious infection	TB	015.22	ICD-9 Diagnosis
Serious infection	TB	015.23	ICD-9 Diagnosis
Serious infection	TB	015.24	ICD-9 Diagnosis
Serious infection	TB	015.25	ICD-9 Diagnosis
Serious infection	TB	015.26	ICD-9 Diagnosis
Serious infection	TB	015.50	ICD-9 Diagnosis
Serious infection	TB	015.51	ICD-9 Diagnosis
Serious infection	TB	015.52	ICD-9 Diagnosis
Serious infection	TB	015.53	ICD-9 Diagnosis
Serious infection	TB	015.54	ICD-9 Diagnosis
Serious infection	TB	015.55	ICD-9 Diagnosis
Serious infection	TB	015.56	ICD-9 Diagnosis
Serious infection	TB	015.60	ICD-9 Diagnosis
Serious infection	TB	015.61	ICD-9 Diagnosis
Serious infection	TB	015.62	ICD-9 Diagnosis
Serious infection	TB	015.63	ICD-9 Diagnosis
Serious infection	TB	015.64	ICD-9 Diagnosis
Serious infection	TB	015.65	ICD-9 Diagnosis
Serious infection	TB	015.66	ICD-9 Diagnosis
Serious infection	TB	015.70	ICD-9 Diagnosis
Serious infection	TB	015.71	ICD-9 Diagnosis
Serious infection	TB	015.72	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	015.73	ICD-9 Diagnosis
Serious infection	TB	015.74	ICD-9 Diagnosis
Serious infection	TB	015.75	ICD-9 Diagnosis
Serious infection	TB	015.76	ICD-9 Diagnosis
Serious infection	TB	015.80	ICD-9 Diagnosis
Serious infection	TB	015.81	ICD-9 Diagnosis
Serious infection	TB	015.82	ICD-9 Diagnosis
Serious infection	TB	015.83	ICD-9 Diagnosis
Serious infection	TB	015.84	ICD-9 Diagnosis
Serious infection	TB	015.85	ICD-9 Diagnosis
Serious infection	TB	015.86	ICD-9 Diagnosis
Serious infection	TB	015.90	ICD-9 Diagnosis
Serious infection	TB	015.91	ICD-9 Diagnosis
Serious infection	TB	015.92	ICD-9 Diagnosis
Serious infection	TB	015.93	ICD-9 Diagnosis
Serious infection	TB	015.94	ICD-9 Diagnosis
Serious infection	TB	015.95	ICD-9 Diagnosis
Serious infection	TB	015.96	ICD-9 Diagnosis
Serious infection	TB	016.00	ICD-9 Diagnosis
Serious infection	TB	016.01	ICD-9 Diagnosis
Serious infection	TB	016.02	ICD-9 Diagnosis
Serious infection	TB	016.03	ICD-9 Diagnosis
Serious infection	TB	016.04	ICD-9 Diagnosis
Serious infection	TB	016.05	ICD-9 Diagnosis
Serious infection	TB	016.06	ICD-9 Diagnosis
Serious infection	TB	016.10	ICD-9 Diagnosis
Serious infection	TB	016.11	ICD-9 Diagnosis
Serious infection	TB	016.12	ICD-9 Diagnosis
Serious infection	TB	016.13	ICD-9 Diagnosis
Serious infection	TB	016.14	ICD-9 Diagnosis
Serious infection	TB	016.15	ICD-9 Diagnosis
Serious infection	TB	016.16	ICD-9 Diagnosis
Serious infection	TB	016.20	ICD-9 Diagnosis
Serious infection	TB	016.21	ICD-9 Diagnosis
Serious infection	TB	016.22	ICD-9 Diagnosis
Serious infection	TB	016.23	ICD-9 Diagnosis
Serious infection	TB	016.24	ICD-9 Diagnosis
Serious infection	TB	016.25	ICD-9 Diagnosis
Serious infection	TB	016.26	ICD-9 Diagnosis
Serious infection	TB	016.30	ICD-9 Diagnosis
Serious infection	TB	016.31	ICD-9 Diagnosis
Serious infection	TB	016.32	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	016.33	ICD-9 Diagnosis
Serious infection	TB	016.34	ICD-9 Diagnosis
Serious infection	TB	016.35	ICD-9 Diagnosis
Serious infection	TB	016.36	ICD-9 Diagnosis
Serious infection	TB	016.40	ICD-9 Diagnosis
Serious infection	TB	016.41	ICD-9 Diagnosis
Serious infection	TB	016.42	ICD-9 Diagnosis
Serious infection	TB	016.43	ICD-9 Diagnosis
Serious infection	TB	016.44	ICD-9 Diagnosis
Serious infection	TB	016.45	ICD-9 Diagnosis
Serious infection	TB	016.46	ICD-9 Diagnosis
Serious infection	TB	016.50	ICD-9 Diagnosis
Serious infection	TB	016.51	ICD-9 Diagnosis
Serious infection	TB	016.52	ICD-9 Diagnosis
Serious infection	TB	016.53	ICD-9 Diagnosis
Serious infection	TB	016.54	ICD-9 Diagnosis
Serious infection	TB	016.55	ICD-9 Diagnosis
Serious infection	TB	016.56	ICD-9 Diagnosis
Serious infection	TB	016.60	ICD-9 Diagnosis
Serious infection	TB	016.61	ICD-9 Diagnosis
Serious infection	TB	016.62	ICD-9 Diagnosis
Serious infection	TB	016.63	ICD-9 Diagnosis
Serious infection	TB	016.64	ICD-9 Diagnosis
Serious infection	TB	016.65	ICD-9 Diagnosis
Serious infection	TB	016.66	ICD-9 Diagnosis
Serious infection	TB	016.70	ICD-9 Diagnosis
Serious infection	TB	016.71	ICD-9 Diagnosis
Serious infection	TB	016.72	ICD-9 Diagnosis
Serious infection	TB	016.73	ICD-9 Diagnosis
Serious infection	TB	016.74	ICD-9 Diagnosis
Serious infection	TB	016.75	ICD-9 Diagnosis
Serious infection	TB	016.76	ICD-9 Diagnosis
Serious infection	TB	016.90	ICD-9 Diagnosis
Serious infection	TB	016.91	ICD-9 Diagnosis
Serious infection	TB	016.92	ICD-9 Diagnosis
Serious infection	TB	016.93	ICD-9 Diagnosis
Serious infection	TB	016.94	ICD-9 Diagnosis
Serious infection	TB	016.95	ICD-9 Diagnosis
Serious infection	TB	016.96	ICD-9 Diagnosis
Serious infection	TB	017.00	ICD-9 Diagnosis
Serious infection	TB	017.01	ICD-9 Diagnosis
Serious infection	TB	017.02	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	017.03	ICD-9 Diagnosis
Serious infection	TB	017.04	ICD-9 Diagnosis
Serious infection	TB	017.05	ICD-9 Diagnosis
Serious infection	TB	017.06	ICD-9 Diagnosis
Serious infection	TB	017.10	ICD-9 Diagnosis
Serious infection	TB	017.11	ICD-9 Diagnosis
Serious infection	TB	017.12	ICD-9 Diagnosis
Serious infection	TB	017.13	ICD-9 Diagnosis
Serious infection	TB	017.14	ICD-9 Diagnosis
Serious infection	TB	017.15	ICD-9 Diagnosis
Serious infection	TB	017.16	ICD-9 Diagnosis
Serious infection	TB	017.20	ICD-9 Diagnosis
Serious infection	TB	017.21	ICD-9 Diagnosis
Serious infection	TB	017.22	ICD-9 Diagnosis
Serious infection	TB	017.23	ICD-9 Diagnosis
Serious infection	TB	017.24	ICD-9 Diagnosis
Serious infection	TB	017.25	ICD-9 Diagnosis
Serious infection	TB	017.26	ICD-9 Diagnosis
Serious infection	TB	017.30	ICD-9 Diagnosis
Serious infection	TB	017.31	ICD-9 Diagnosis
Serious infection	TB	017.32	ICD-9 Diagnosis
Serious infection	TB	017.33	ICD-9 Diagnosis
Serious infection	TB	017.34	ICD-9 Diagnosis
Serious infection	TB	017.35	ICD-9 Diagnosis
Serious infection	TB	017.36	ICD-9 Diagnosis
Serious infection	TB	017.40	ICD-9 Diagnosis
Serious infection	TB	017.41	ICD-9 Diagnosis
Serious infection	TB	017.42	ICD-9 Diagnosis
Serious infection	TB	017.43	ICD-9 Diagnosis
Serious infection	TB	017.44	ICD-9 Diagnosis
Serious infection	TB	017.45	ICD-9 Diagnosis
Serious infection	TB	017.46	ICD-9 Diagnosis
Serious infection	TB	017.50	ICD-9 Diagnosis
Serious infection	TB	017.51	ICD-9 Diagnosis
Serious infection	TB	017.52	ICD-9 Diagnosis
Serious infection	TB	017.53	ICD-9 Diagnosis
Serious infection	TB	017.54	ICD-9 Diagnosis
Serious infection	TB	017.55	ICD-9 Diagnosis
Serious infection	TB	017.56	ICD-9 Diagnosis
Serious infection	TB	017.60	ICD-9 Diagnosis
Serious infection	TB	017.61	ICD-9 Diagnosis
Serious infection	TB	017.62	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	017.63	ICD-9 Diagnosis
Serious infection	TB	017.64	ICD-9 Diagnosis
Serious infection	TB	017.65	ICD-9 Diagnosis
Serious infection	TB	017.66	ICD-9 Diagnosis
Serious infection	TB	017.70	ICD-9 Diagnosis
Serious infection	TB	017.71	ICD-9 Diagnosis
Serious infection	TB	017.72	ICD-9 Diagnosis
Serious infection	TB	017.73	ICD-9 Diagnosis
Serious infection	TB	017.74	ICD-9 Diagnosis
Serious infection	TB	017.75	ICD-9 Diagnosis
Serious infection	TB	017.76	ICD-9 Diagnosis
Serious infection	TB	017.80	ICD-9 Diagnosis
Serious infection	TB	017.81	ICD-9 Diagnosis
Serious infection	TB	017.82	ICD-9 Diagnosis
Serious infection	TB	017.83	ICD-9 Diagnosis
Serious infection	TB	017.84	ICD-9 Diagnosis
Serious infection	TB	017.85	ICD-9 Diagnosis
Serious infection	TB	017.86	ICD-9 Diagnosis
Serious infection	TB	017.90	ICD-9 Diagnosis
Serious infection	TB	017.91	ICD-9 Diagnosis
Serious infection	TB	017.92	ICD-9 Diagnosis
Serious infection	TB	017.93	ICD-9 Diagnosis
Serious infection	TB	017.94	ICD-9 Diagnosis
Serious infection	TB	017.95	ICD-9 Diagnosis
Serious infection	TB	017.96	ICD-9 Diagnosis
Serious infection	TB	018.00	ICD-9 Diagnosis
Serious infection	TB	018.01	ICD-9 Diagnosis
Serious infection	TB	018.02	ICD-9 Diagnosis
Serious infection	TB	018.03	ICD-9 Diagnosis
Serious infection	TB	018.04	ICD-9 Diagnosis
Serious infection	TB	018.05	ICD-9 Diagnosis
Serious infection	TB	018.06	ICD-9 Diagnosis
Serious infection	TB	018.80	ICD-9 Diagnosis
Serious infection	TB	018.81	ICD-9 Diagnosis
Serious infection	TB	018.82	ICD-9 Diagnosis
Serious infection	TB	018.83	ICD-9 Diagnosis
Serious infection	TB	018.84	ICD-9 Diagnosis
Serious infection	TB	018.85	ICD-9 Diagnosis
Serious infection	TB	018.86	ICD-9 Diagnosis
Serious infection	TB	018.90	ICD-9 Diagnosis
Serious infection	TB	018.91	ICD-9 Diagnosis
Serious infection	TB	018.92	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	TB	018.93	ICD-9 Diagnosis
Serious infection	TB	018.94	ICD-9 Diagnosis
Serious infection	TB	018.95	ICD-9 Diagnosis
Serious infection	TB	018.96	ICD-9 Diagnosis
Serious infection	TB	137.0	ICD-9 Diagnosis
Serious infection	TB	137.1	ICD-9 Diagnosis
Serious infection	TB	137.2	ICD-9 Diagnosis
Serious infection	TB	137.3	ICD-9 Diagnosis
Serious infection	TB	137.4	ICD-9 Diagnosis
Serious infection	TB	V12.01	ICD-9 Diagnosis
Serious infection	Tonsillitis	463	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.0	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.00	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.01	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.02	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.10	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.11	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.12	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.2	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.8	ICD-9 Diagnosis
Serious infection	Tonsillitis	474.9	ICD-9 Diagnosis
Serious infection	Tonsillitis	475	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.0	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.00	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.01	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.02	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.03	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.04	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.05	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.06	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.07	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.09	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.1	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.10	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.11	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.12	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.13	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.14	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.15	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.19	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.20	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.21	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Skin ulcer	707.22	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.23	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.24	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.25	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.8	ICD-9 Diagnosis
Serious infection	Skin ulcer	707.9	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	032.0	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	032.1	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	032.2	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	032.3	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	034.0	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	460	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	461.0	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	461.1	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	461.2	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	461.3	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	461.8	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	461.9	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	462	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.0	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.00	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.01	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.10	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.11	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.20	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.21	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.30	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.31	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.4	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.50	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	464.51	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	465.0	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	465.8	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	465.9	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	473.0	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	473.1	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	473.2	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	473.3	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	473.8	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	473.9	ICD-9 Diagnosis
Serious infection	Upper respiratory tract infection	784.91	ICD-9 Diagnosis
Serious infection	Urinary tract infection	032.84	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Urinary tract infection	590.00	ICD-9 Diagnosis
Serious infection	Urinary tract infection	590.01	ICD-9 Diagnosis
Serious infection	Urinary tract infection	590.10	ICD-9 Diagnosis
Serious infection	Urinary tract infection	590.11	ICD-9 Diagnosis
Serious infection	Urinary tract infection	590.2	ICD-9 Diagnosis
Serious infection	Urinary tract infection	590.3	ICD-9 Diagnosis
Serious infection	Urinary tract infection	590.80	ICD-9 Diagnosis
Serious infection	Urinary tract infection	590.81	ICD-9 Diagnosis
Serious infection	Urinary tract infection	590.9	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.0	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.1	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.2	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.3	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.4	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.81	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.82	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.89	ICD-9 Diagnosis
Serious infection	Urinary tract infection	595.9	ICD-9 Diagnosis
Serious infection	Urinary tract infection	597.0	ICD-9 Diagnosis
Serious infection	Urinary tract infection	597.80	ICD-9 Diagnosis
Serious infection	Urinary tract infection	597.81	ICD-9 Diagnosis
Serious infection	Urinary tract infection	597.89	ICD-9 Diagnosis
Serious infection	Urinary tract infection	598.00	ICD-9 Diagnosis
Serious infection	Urinary tract infection	598.01	ICD-9 Diagnosis
Serious infection	Urinary tract infection	599.0	ICD-9 Diagnosis
Serious infection	Viral	050.0	ICD-9 Diagnosis
Serious infection	Viral	050.1	ICD-9 Diagnosis
Serious infection	Viral	050.2	ICD-9 Diagnosis
Serious infection	Viral	050.9	ICD-9 Diagnosis
Serious infection	Viral	051.0	ICD-9 Diagnosis
Serious infection	Viral	051.01	ICD-9 Diagnosis
Serious infection	Viral	051.02	ICD-9 Diagnosis
Serious infection	Viral	051.1	ICD-9 Diagnosis
Serious infection	Viral	051.2	ICD-9 Diagnosis
Serious infection	Viral	051.9	ICD-9 Diagnosis
Serious infection	Viral	052.2	ICD-9 Diagnosis
Serious infection	Viral	052.7	ICD-9 Diagnosis
Serious infection	Viral	052.8	ICD-9 Diagnosis
Serious infection	Viral	052.9	ICD-9 Diagnosis
Serious infection	Viral	053.10	ICD-9 Diagnosis
Serious infection	Viral	053.11	ICD-9 Diagnosis
Serious infection	Viral	053.12	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Viral	053.13	ICD-9 Diagnosis
Serious infection	Viral	053.14	ICD-9 Diagnosis
Serious infection	Viral	053.19	ICD-9 Diagnosis
Serious infection	Viral	053.71	ICD-9 Diagnosis
Serious infection	Viral	053.79	ICD-9 Diagnosis
Serious infection	Viral	053.8	ICD-9 Diagnosis
Serious infection	Viral	053.9	ICD-9 Diagnosis
Serious infection	Viral	054.0	ICD-9 Diagnosis
Serious infection	Viral	054.10	ICD-9 Diagnosis
Serious infection	Viral	054.11	ICD-9 Diagnosis
Serious infection	Viral	054.12	ICD-9 Diagnosis
Serious infection	Viral	054.13	ICD-9 Diagnosis
Serious infection	Viral	054.19	ICD-9 Diagnosis
Serious infection	Viral	054.2	ICD-9 Diagnosis
Serious infection	Viral	054.6	ICD-9 Diagnosis
Serious infection	Viral	054.71	ICD-9 Diagnosis
Serious infection	Viral	054.73	ICD-9 Diagnosis
Serious infection	Viral	054.74	ICD-9 Diagnosis
Serious infection	Viral	054.79	ICD-9 Diagnosis
Serious infection	Viral	054.8	ICD-9 Diagnosis
Serious infection	Viral	054.9	ICD-9 Diagnosis
Serious infection	Viral	055.79	ICD-9 Diagnosis
Serious infection	Viral	055.8	ICD-9 Diagnosis
Serious infection	Viral	055.9	ICD-9 Diagnosis
Serious infection	Viral	056.00	ICD-9 Diagnosis
Serious infection	Viral	056.09	ICD-9 Diagnosis
Serious infection	Viral	056.79	ICD-9 Diagnosis
Serious infection	Viral	056.8	ICD-9 Diagnosis
Serious infection	Viral	056.9	ICD-9 Diagnosis
Serious infection	Viral	057.0	ICD-9 Diagnosis
Serious infection	Viral	057.8	ICD-9 Diagnosis
Serious infection	Viral	057.9	ICD-9 Diagnosis
Serious infection	Viral	058.10	ICD-9 Diagnosis
Serious infection	Viral	058.11	ICD-9 Diagnosis
Serious infection	Viral	058.12	ICD-9 Diagnosis
Serious infection	Viral	058.81	ICD-9 Diagnosis
Serious infection	Viral	058.82	ICD-9 Diagnosis
Serious infection	Viral	058.89	ICD-9 Diagnosis
Serious infection	Viral	059.00	ICD-9 Diagnosis
Serious infection	Viral	059.01	ICD-9 Diagnosis
Serious infection	Viral	059.09	ICD-9 Diagnosis
Serious infection	Viral	059.10	ICD-9 Diagnosis

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APPENDIX B Code Lists (continued)

Category	Description	Code	CodeType
Serious infection	Viral	059.11	ICD-9 Diagnosis
Serious infection	Viral	059.12	ICD-9 Diagnosis
Serious infection	Viral	059.19	ICD-9 Diagnosis
Serious infection	Viral	059.20	ICD-9 Diagnosis
Serious infection	Viral	059.21	ICD-9 Diagnosis
Serious infection	Viral	059.22	ICD-9 Diagnosis
Serious infection	Viral	059.8	ICD-9 Diagnosis
Serious infection	Viral	059.9	ICD-9 Diagnosis
Serious infection	Viral	060.0	ICD-9 Diagnosis
Serious infection	Viral	060.1	ICD-9 Diagnosis
Serious infection	Viral	060.9	ICD-9 Diagnosis
Serious infection	Viral	061	ICD-9 Diagnosis
Serious infection	Viral	065.0	ICD-9 Diagnosis
Serious infection	Viral	065.1	ICD-9 Diagnosis
Serious infection	Viral	065.2	ICD-9 Diagnosis
Serious infection	Viral	065.3	ICD-9 Diagnosis
Serious infection	Viral	065.4	ICD-9 Diagnosis
Serious infection	Viral	065.8	ICD-9 Diagnosis
Serious infection	Viral	065.9	ICD-9 Diagnosis
Serious infection	Viral	066.0	ICD-9 Diagnosis
Serious infection	Viral	066.1	ICD-9 Diagnosis
Serious infection	Viral	066.3	ICD-9 Diagnosis
Serious infection	Viral	066.4	ICD-9 Diagnosis
Serious infection	Viral	066.40	ICD-9 Diagnosis
Serious infection	Viral	066.42	ICD-9 Diagnosis
Serious infection	Viral	066.49	ICD-9 Diagnosis
Serious infection	Viral	066.8	ICD-9 Diagnosis
Serious infection	Viral	066.9	ICD-9 Diagnosis
Serious infection	Viral	071	ICD-9 Diagnosis
Serious infection	Viral	072.0	ICD-9 Diagnosis
Serious infection	Viral	072.3	ICD-9 Diagnosis
Serious infection	Viral	072.72	ICD-9 Diagnosis
Serious infection	Viral	072.79	ICD-9 Diagnosis
Serious infection	Viral	072.8	ICD-9 Diagnosis
Serious infection	Viral	072.9	ICD-9 Diagnosis
Serious infection	Viral	073.7	ICD-9 Diagnosis
Serious infection	Viral	073.8	ICD-9 Diagnosis
Serious infection	Viral	073.9	ICD-9 Diagnosis
Serious infection	Viral	074.0	ICD-9 Diagnosis
Serious infection	Viral	074.1	ICD-9 Diagnosis
Serious infection	Viral	074.3	ICD-9 Diagnosis
Serious infection	Viral	074.8	ICD-9 Diagnosis

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APPENDIX B Code Lists *(continued)*

Category	Description	Code	CodeType
Serious infection	Viral	075	ICD-9 Diagnosis
Serious infection	Viral	078.0	ICD-9 Diagnosis
Serious infection	Viral	078.1	ICD-9 Diagnosis
Serious infection	Viral	078.10	ICD-9 Diagnosis
Serious infection	Viral	078.11	ICD-9 Diagnosis
Serious infection	Viral	078.12	ICD-9 Diagnosis
Serious infection	Viral	078.19	ICD-9 Diagnosis
Serious infection	Viral	078.2	ICD-9 Diagnosis
Serious infection	Viral	078.4	ICD-9 Diagnosis
Serious infection	Viral	078.5	ICD-9 Diagnosis
Serious infection	Viral	078.6	ICD-9 Diagnosis
Serious infection	Viral	078.7	ICD-9 Diagnosis
Serious infection	Viral	078.81	ICD-9 Diagnosis
Serious infection	Viral	078.82	ICD-9 Diagnosis
Serious infection	Viral	078.88	ICD-9 Diagnosis
Serious infection	Viral	078.89	ICD-9 Diagnosis
Serious infection	Viral	079.0	ICD-9 Diagnosis
Serious infection	Viral	079.1	ICD-9 Diagnosis
Serious infection	Viral	079.2	ICD-9 Diagnosis
Serious infection	Viral	079.3	ICD-9 Diagnosis
Serious infection	Viral	079.4	ICD-9 Diagnosis
Serious infection	Viral	079.50	ICD-9 Diagnosis
Serious infection	Viral	079.51	ICD-9 Diagnosis
Serious infection	Viral	079.52	ICD-9 Diagnosis
Serious infection	Viral	079.59	ICD-9 Diagnosis
Serious infection	Viral	079.6	ICD-9 Diagnosis
Serious infection	Viral	079.8	ICD-9 Diagnosis
Serious infection	Viral	079.81	ICD-9 Diagnosis
Serious infection	Viral	079.82	ICD-9 Diagnosis
Serious infection	Viral	079.83	ICD-9 Diagnosis
Serious infection	Viral	079.88	ICD-9 Diagnosis
Serious infection	Viral	079.89	ICD-9 Diagnosis
Serious infection	Viral	079.9	ICD-9 Diagnosis
Serious infection	Viral	079.98	ICD-9 Diagnosis
Serious infection	Viral	079.99	ICD-9 Diagnosis
Serious infection	Viral	790.8	ICD-9 Diagnosis