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APPENDICES

APPENDIX 30.1. Percent of Deaths With Infections, by Diabetes Status, U.S., 1999–2010

	PERCENT											
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Among persons with diabetes mentioned anywhere on the death certificate</b>												
Any infection (among those below)	3.08	3.14	3.23	3.35	3.30	3.20	3.31	3.12	3.06	2.81	2.75	2.66
Respiratory tract infections	1.27	1.35	1.36	1.43	1.35	1.26	1.31	1.19	1.14	1.14	1.09	1.00
Urinary tract infections	0.67	0.65	0.66	0.64	0.65	0.66	0.68	0.67	0.65	0.42	0.42	0.41
Skin and connective tissue infections	0.13	0.14	0.15	0.17	0.20	0.22	0.21	0.21	0.22	0.22	0.22	0.21
Hospital-acquired infections	0.93	0.92	0.98	1.02	1.00	0.97	1.02	0.96	0.96	0.95	0.93	0.95
Infections associated with diabetes	0.03	0.03	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04
HIV	0.04	0.04	0.05	0.05	0.06	0.05	0.05	0.06	0.05	0.04	0.04	0.04
<b>Among persons without diabetes mentioned anywhere on the death certificate</b>												
Any infection (among those below)	4.49	4.51	4.48	4.62	4.58	4.49	4.54	4.33	4.29	4.19	4.06	4.09
Respiratory tract infections	2.39	2.41	2.33	2.43	2.37	2.24	2.29	2.09	2.03	2.07	1.94	1.98
Urinary tract infections	0.59	0.58	0.58	0.57	0.57	0.58	0.62	0.60	0.60	0.46	0.45	0.50
Skin and connective tissue infections	0.05	0.05	0.06	0.06	0.08	0.09	0.08	0.08	0.08	0.08	0.09	0.09
Hospital-acquired infections	1.17	1.19	1.23	1.28	1.30	1.31	1.30	1.32	1.35	1.37	1.38	1.34
Infections associated with diabetes	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.04	0.04	0.04
HIV	0.27	0.26	0.25	0.25	0.23	0.23	0.21	0.20	0.18	0.17	0.16	0.14

Diabetes was defined using ICD-10 codes: E10–E14, O24.0–O24.3, and P70.2. ICD-10 codes were used to define infections as follows: respiratory tract infections, including influenza (J10.1, J18.9), and sinusitis and bronchitis (J32.9, J40); urinary tract infections, including asymptomatic bacteriuria (N39.0), cystitis (N30.9), pyelonephritis (N10), and perinephric abscess (N15.1); skin and connective tissue infections, including oral and vaginal candidiasis (B37.0, B37.3), onychomycosis (B35.1), intertrigo (L30.4), cellulitis and impetigo (L3.9, L1.0), foot ulcers (L97), necrotizing fasciitis (M72.6), and osteomyelitis (M86.9); hospital-acquired infections, including sepsis (A41.9); infections associated with diabetes, including malignant otitis externa (H60.2), mucormycosis (B46.5), and emphysematous cholecystitis (K81.0); and HIV (B20). Tuberculosis (A15.9) and Fournier’s gangrene (N49.3) were not in the data set. HIV, human immunodeficiency virus; ICD-10, The International Classification of Diseases, Tenth Revision, is the standard diagnostic tool for epidemiologic, health management, and clinical purposes, including the analysis of the general health situation of population groups. It is used to monitor the incidence and prevalence of diseases and other health problems, providing a picture of the general health situation of countries and populations.

SOURCE: National Vital Statistics System 1999–2010

APPENDIX 30.2. Age-Standardized Percent of Hospital Discharges Listing Infection, by Diabetes Status, U.S., 1999–2010

ICD-9 CODES	PERCENT (STANDARD ERROR)												
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
<b>Among people with diabetes</b>													
Any infection (among those below)	18.41 (0.46)	18.82 (0.51)	18.19 (0.45)	16.91 (0.40)	18.62 (0.44)	18.58 (0.42)	18.85 (0.40)	18.16 (0.41)	17.39 (0.43)	17.73 (0.56)	16.75 (0.52)	18.47 (0.57)	
Respiratory tract infections	7.00 (0.31)	6.53 (0.27)	6.66 (0.31)	6.18 (0.25)	6.51 (0.25)	6.73 (0.25)	7.21 (0.26)	6.21 (0.25)	5.60 (0.22)	6.20 (0.31)	5.97 (0.30)	5.91 (0.29)	
Influenza	480–488	5.89 (0.28)	5.64 (0.24)	5.83 (0.29)	5.51 (0.23)	5.92 (0.24)	5.76 (0.22)	6.36 (0.25)	5.51 (0.24)	4.93 (0.20)	5.68 (0.30)	5.44 (0.29)	5.37 (0.27)
Sinusitis and bronchitis	461, 466	1.24 (0.18)	0.95 (0.12)	0.90 (0.12)	0.72 (0.10)	0.68 (0.09)	1.09 (0.14)	0.92 (0.08)	0.77 (0.08)	0.71 (0.09)	0.66 (0.13)	0.65 (0.12)	0.60 (0.10)
Urinary tract infections		0.89 (0.14)	0.84 (0.10)	0.95 (0.14)	0.74 (0.09)	0.84 (0.11)	0.96 (0.17)	0.84 (0.09)	0.85 (0.10)	0.88 (0.12)	1.22 (0.19)	1.02 (0.16)	0.88 (0.13)
Asymptomatic bacteriuria	791.9	0.03 (0.01) <sup>1</sup>	0.07 (0.02)	0.03 (0.01) <sup>1</sup>	0.03 (0.01) <sup>1</sup>	0.02 (0.01) <sup>2</sup>	0.01 (0.00)	0.06 (0.03) <sup>2</sup>	0.02 (0.01) <sup>2</sup>	0.05 (0.02) <sup>1</sup>	0.03 (0.01) <sup>1</sup>	<sup>3</sup>	0.01 (0.00)
Cystitis	595.0	0.06 (0.03) <sup>2</sup>	0.07 (0.03) <sup>2</sup>	0.02 (0.01) <sup>2</sup>	0.04 (0.01)	0.07 (0.03) <sup>2</sup>	0.09 (0.03) <sup>1</sup>	0.05 (0.01)	0.05 (0.02) <sup>1</sup>	0.03 (0.01) <sup>1</sup>	<sup>3</sup>	0.07 (0.03) <sup>2</sup>	0.13 (0.05) <sup>1</sup>
Pyelonephritis	590.1, 590.8	0.80 (0.13)	0.68 (0.09)	0.90 (0.14)	0.66 (0.09)	0.74 (0.11)	0.84 (0.17)	0.72 (0.09)	0.77 (0.10)	0.78 (0.12)	0.95 (0.13)	0.84 (0.14)	0.73 (0.12)
Perinephric abscess	590.2	0.02 (0.01) <sup>2</sup>	0.02 (0.01) <sup>2</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	0.01 (0.00)	0.02 (0.01) <sup>2</sup>	<sup>3</sup>	0.03 (0.01) <sup>1</sup>	0.08 (0.04) <sup>2</sup>	<sup>3</sup>	<sup>3</sup>

Appendix 30.2 continues on the next page.

## APPENDIX 30.2. (continued)

	ICD-9 CODES	PERCENT (STANDARD ERROR)											
		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Skin and connective tissue infections		8.32 (0.31)	9.53 (0.43)	8.89 (0.32)	8.53 (0.30)	9.51 (0.35)	9.37 (0.31)	9.18 (0.30)	9.59 (0.33)	9.25 (0.34)	8.86 (0.45)	8.50 (0.42)	9.76 (0.45)
Oral and vaginal candidiasis	112.0–112.3	0.92 (0.13)	1.26 (0.16)	0.75 (0.09)	0.92 (0.12)	0.92 (0.10)	0.70 (0.07)	0.87 (0.09)	0.85 (0.10)	0.88 (0.10)	1.11 (0.22)	0.83 (0.13)	0.95 (0.12)
Onychomycosis	110.1	0.13 (0.03)	0.18 (0.07) <sup>1</sup>	0.14 (0.02)	0.12 (0.02)	0.16 (0.04)	0.16 (0.04)	0.13 (0.03)	0.14 (0.03)	0.11 (0.02)	0.10 (0.03)	0.08 (0.04) <sup>2</sup>	0.13 (0.05) <sup>1</sup>
Intertrigo	695.89	<sup>3</sup>	0.02 (0.01) <sup>2</sup>	0.02 (0.01) <sup>2</sup>	0.01 (0.00)	0.06 (0.03) <sup>2</sup>	<sup>3</sup>	0.02 (0.01) <sup>2</sup>	0.02 (0.01) <sup>2</sup>	0.03 (0.01) <sup>1</sup>	0.01 (0.00)	<sup>3</sup>	0.02 (0.01) <sup>2</sup>
Cellulitis and impetigo	682, 684	4.59 (0.24)	5.36 (0.31)	4.94 (0.24)	5.07 (0.24)	5.80 (0.30)	5.76 (0.27)	5.72 (0.25)	6.10 (0.28)	5.74 (0.28)	5.29 (0.35)	5.29 (0.36)	6.66 (0.42)
Foot ulcers	707.1	2.96 (0.18)	3.31 (0.29)	3.41 (0.20)	3.07 (0.17)	3.19 (0.18)	3.19 (0.16)	3.05 (0.15)	3.28 (0.18)	3.16 (0.20)	2.57 (0.22)	2.58 (0.19)	2.76 (0.22)
Necrotizing fasciitis	728.86	0.05 (0.02) <sup>1</sup>	0.09 (0.03) <sup>1</sup>	0.04 (0.01)	0.24 (0.08) <sup>1</sup>	0.10 (0.03)	0.09 (0.03) <sup>1</sup>	0.14 (0.05) <sup>1</sup>	0.07 (0.02)	0.12 (0.05) <sup>2</sup>	<sup>3</sup>	0.03 (0.01) <sup>1</sup>	<sup>3</sup>
Fournier's gangrene	785.4	1.00 (0.10)	0.80 (0.08)	0.84 (0.09)	0.68 (0.07)	0.60 (0.06)	0.68 (0.07)	0.58 (0.05)	0.61 (0.07)	0.67 (0.08)	0.60 (0.09)	0.65 (0.10)	0.82 (0.14)
Osteomyelitis	730.2	0.67 (0.10)	0.66 (0.16)	0.77 (0.10)	0.48 (0.05)	0.71 (0.09)	0.86 (0.10)	0.77 (0.08)	1.12 (0.15)	0.93 (0.13)	1.08 (0.15)	1.11 (0.15)	0.91 (0.11)
Hospital-acquired infections		3.21 (0.21)	3.12 (0.24)	2.74 (0.16)	2.77 (0.18)	2.72 (0.16)	2.55 (0.14)	2.51 (0.15)	2.47 (0.18)	2.37 (0.16)	2.62 (0.24)	2.44 (0.21)	2.76 (0.26)
Sepsis	038	2.69 (0.20)	2.45 (0.20)	2.15 (0.13)	2.14 (0.15)	1.90 (0.12)	2.04 (0.13)	1.96 (0.13)	1.98 (0.17)	1.85 (0.15)	1.99 (0.20)	1.97 (0.19)	2.22 (0.21)
Postoperative wound infections	998.59	0.54 (0.07)	0.67 (0.14)	0.63 (0.09)	0.64 (0.09)	0.83 (0.11)	0.53 (0.06)	0.60 (0.07)	0.52 (0.06)	0.54 (0.08)	0.63 (0.14)	0.48 (0.08)	0.56 (0.15)
Infections associated with diabetes		0.08 (0.02)	0.08 (0.02)	0.12 (0.04) <sup>1</sup>	0.09 (0.02)	0.15 (0.05) <sup>1</sup>	0.17 (0.05)	0.12 (0.04) <sup>1</sup>	0.15 (0.05) <sup>1</sup>	0.18 (0.06) <sup>1</sup>	0.15 (0.04)	0.13 (0.05) <sup>1</sup>	0.33 (0.11) <sup>1</sup>
Malignant otitis externa	380.14	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	0.01 (0.00)	0.01 (0.00)	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>
Mucormycosis	117.7	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	0.02 (0.01) <sup>2</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>
Emphysematous cholecystitis	575.0	0.08 (0.02)	0.08 (0.02)	0.11 (0.04) <sup>1</sup>	0.08 (0.02)	0.15 (0.05) <sup>1</sup>	0.16 (0.05) <sup>1</sup>	0.09 (0.03) <sup>1</sup>	0.14 (0.05) <sup>1</sup>	0.18 (0.06) <sup>1</sup>	0.12 (0.03)	0.13 (0.05) <sup>1</sup>	0.31 (0.11) <sup>1</sup>
Tuberculosis	010–018	<sup>3</sup>	0.12 (0.04) <sup>1</sup>	<sup>3</sup>	0.02 (0.01) <sup>2</sup>	0.02 (0.01) <sup>2</sup>	0.04 (0.01)	0.02 (0.01) <sup>2</sup>	0.03 (0.01) <sup>1</sup>	0.06 (0.03) <sup>2</sup>	<sup>3</sup>	0.02 (0.01) <sup>2</sup>	<sup>3</sup>
HIV	042–044	0.48 (0.09)	0.41 (0.09)	0.32 (0.07)	0.32 (0.07)	0.33 (0.07)	0.19 (0.03)	0.33 (0.08)	0.45 (0.09)	0.36 (0.08)	0.30 (0.07)	0.26 (0.06)	0.44 (0.16) <sup>1</sup>
<b>Among people without diabetes</b>													
Any infection (among those below)		12.62 (0.12)	12.54 (0.12)	12.53 (0.12)	12.79 (0.12)	13.38 (0.12)	13.58 (0.12)	13.88 (0.12)	13.55 (0.11)	13.68 (0.12)	14.39 (0.15)	14.71 (0.16)	14.91 (0.16)
Respiratory tract infections		7.49 (0.09)	7.27 (0.10)	7.09 (0.09)	7.25 (0.09)	7.57 (0.10)	7.40 (0.09)	7.53 (0.09)	7.07 (0.09)	6.84 (0.09)	7.43 (0.12)	7.46 (0.12)	7.68 (0.12)
Influenza	480–488	6.26 (0.09)	6.15 (0.09)	6.10 (0.09)	6.19 (0.09)	6.65 (0.09)	6.36 (0.09)	6.64 (0.09)	6.22 (0.08)	6.07 (0.09)	6.69 (0.11)	6.77 (0.11)	6.95 (0.12)
Sinusitis and bronchitis	461, 466	1.39 (0.04)	1.29 (0.04)	1.15 (0.04)	1.22 (0.04)	1.07 (0.03)	1.21 (0.03)	1.06 (0.03)	0.98 (0.03)	0.91 (0.03)	0.88 (0.04)	0.83 (0.04)	0.89 (0.04)
Urinary tract infections		0.59 (0.03)	0.61 (0.03)	0.60 (0.03)	0.63 (0.03)	0.62 (0.03)	0.65 (0.03)	0.69 (0.03)	0.65 (0.03)	0.65 (0.03)	0.68 (0.04)	0.68 (0.04)	0.79 (0.04)
Asymptomatic bacteriuria	791.9	0.03 (0.01) <sup>1</sup>	0.04 (0.01)	0.02 (0.00)	0.02 (0.00)	0.03 (0.01) <sup>1</sup>	0.03 (0.01) <sup>1</sup>	0.03 (0.01) <sup>1</sup>	0.02 (0.00)	0.05 (0.01)	0.05 (0.01)	0.05 (0.01)	0.06 (0.01)
Cystitis	595.0	0.05 (0.01)	0.03 (0.00)	0.04 (0.01)	0.04 (0.01)	0.04 (0.01)	0.04 (0.01)	0.04 (0.01)	0.04 (0.01)	0.04 (0.01)	0.05 (0.01)	0.07 (0.02)	0.07 (0.02)
Pyelonephritis	590.1, 590.8	0.51 (0.03)	0.53 (0.03)	0.53 (0.03)	0.57 (0.03)	0.55 (0.02)	0.57 (0.02)	0.61 (0.03)	0.59 (0.02)	0.55 (0.03)	0.57 (0.03)	0.55 (0.03)	0.65 (0.04)
Perinephric abscess	590.2	<sup>3</sup>	0.01 (0.00)	0.01 (0.00)	0.01 (0.00)	<sup>3</sup>	0.01 (0.00)	0.01 (0.00)	0.02 (0.00)	0.02 (0.00)	0.01 (0.00)	0.01 (0.00)	0.01 (0.00)

Appendix 30.2 continues on the next page.

APPENDIX 30.2. (continued)

ICD-9 CODES	PERCENT (STANDARD ERROR)												
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Skin and connective tissue infections	2.80 (0.06)	2.95 (0.06)	3.26 (0.06)	3.25 (0.06)	3.36 (0.06)	3.74 (0.07)	3.70 (0.06)	3.75 (0.06)	4.01 (0.07)	4.17 (0.09)	4.20 (0.09)	4.15 (0.09)	
Oral and vaginal candidiasis 112.0–112.3	0.54 (0.03)	0.65 (0.03)	0.67 (0.03)	0.61 (0.03)	0.56 (0.03)	0.62 (0.03)	0.61 (0.03)	0.63 (0.03)	0.69 (0.03)	0.74 (0.04)	0.79 (0.04)	0.79 (0.04)	
Onychomycosis 110.1	0.08 (0.01)	0.09 (0.01)	0.08 (0.01)	0.07 (0.01)	0.08 (0.01)	0.07 (0.01)	0.08 (0.01)	0.05 (0.01)	0.06 (0.01)	0.05 (0.01)	0.06 (0.01)	0.06 (0.01)	
Intertrigo 695.89	0.01 (0.00)	0.02 (0.01) <sup>2</sup>	0.01 (0.00)	0.02 (0.01) <sup>2</sup>	0.01 (0.00)	0.02 (0.00)	0.02 (0.01) <sup>2</sup>	0.01 (0.00)	0.02 (0.00)	0.02 (0.01) <sup>2</sup>	0.01 (0.00)	0.02 (0.01) <sup>2</sup>	
Cellulitis and impetigo 682, 684	1.78 (0.05)	1.80 (0.05)	2.03 (0.05)	2.07 (0.05)	2.20 (0.05)	2.51 (0.05)	2.50 (0.05)	2.60 (0.05)	2.66 (0.05)	2.75 (0.07)	2.75 (0.07)	2.69 (0.07)	
Foot ulcers 707.1	0.37 (0.02)	0.40 (0.02)	0.55 (0.02)	0.57 (0.03)	0.59 (0.03)	0.60 (0.03)	0.56 (0.03)	0.60 (0.02)	0.73 (0.03)	0.68 (0.04)	0.65 (0.04)	0.63 (0.04)	
Necrotizing fasciitis 728.86	0.02 (0.00)	0.02 (0.00)	0.03 (0.01) <sup>1</sup>	0.02 (0.00)	0.03 (0.01) <sup>1</sup>	0.03 (0.01) <sup>1</sup>	0.02 (0.00)	0.02 (0.00)	0.03 (0.01) <sup>1</sup>	0.03 (0.01) <sup>1</sup>	0.02 (0.01) <sup>2</sup>	0.04 (0.01)	
Fournier’s gangrene 785.4	0.12 (0.01)	0.10 (0.01)	0.08 (0.01)	0.10 (0.01)	0.08 (0.01)	0.09 (0.01)	0.08 (0.01)	0.08 (0.01)	0.13 (0.01)	0.12 (0.02)	0.13 (0.02)	0.10 (0.02)	
Osteomyelitis 730.2	0.11 (0.01)	0.13 (0.01)	0.13 (0.01)	0.13 (0.01)	0.15 (0.01)	0.15 (0.01)	0.16 (0.01)	0.13 (0.01)	0.16 (0.01)	0.23 (0.02)	0.25 (0.02)	0.23 (0.02)	
Hospital-acquired infections	2.42 (0.05)	2.33 (0.05)	2.39 (0.05)	2.52 (0.06)	2.65 (0.06)	2.80 (0.06)	2.99 (0.06)	3.11 (0.06)	3.37 (0.06)	3.59 (0.08)	3.83 (0.09)	4.11 (0.09)	
Sepsis 038	1.95 (0.05)	1.86 (0.05)	1.87 (0.05)	1.99 (0.05)	2.13 (0.05)	2.24 (0.05)	2.43 (0.05)	2.62 (0.05)	2.81 (0.06)	3.10 (0.08)	3.26 (0.08)	3.55 (0.09)	
Postoperative wound infections 998.59	0.51 (0.03)	0.51 (0.02)	0.56 (0.03)	0.57 (0.03)	0.57 (0.03)	0.63 (0.03)	0.61 (0.03)	0.54 (0.02)	0.61 (0.03)	0.55 (0.03)	0.63 (0.04)	0.62 (0.04)	
Infections associated with diabetes	0.08 (0.01)	0.09 (0.01)	0.09 (0.01)	0.08 (0.01)	0.09 (0.01)	0.08 (0.01)	0.10 (0.01)	0.11 (0.01)	0.13 (0.01)	0.13 (0.02)	0.12 (0.02)	0.13 (0.02)	
Malignant otitis externa 380.14	3	3	3	3	3	0.01 (0.00)	3	3	3	3	3	3	
Mucormycosis 117.7	3	3	3	3	3	3	3	3	3	3	3	3	
Emphysematous cholecystitis 575.0	0.08 (0.01)	0.09 (0.01)	0.09 (0.01)	0.08 (0.01)	0.09 (0.01)	0.07 (0.01)	0.10 (0.01)	0.11 (0.01)	0.13 (0.01)	0.12 (0.02)	0.12 (0.02)	0.13 (0.02)	
Tuberculosis 010–018	0.05 (0.01)	0.05 (0.01)	0.05 (0.01)	0.04 (0.01)	0.04 (0.01)	0.05 (0.01)	0.06 (0.01)	0.04 (0.01)	0.05 (0.01)	0.05 (0.01)	0.04 (0.01)	0.03 (0.01) <sup>1</sup>	
HIV 042–044	0.38 (0.02)	0.39 (0.02)	0.39 (0.02)	0.39 (0.02)	0.44 (0.02)	0.39 (0.02)	0.34 (0.02)	0.44 (0.02)	0.43 (0.02)	0.39 (0.02)	0.27 (0.02)	0.32 (0.02)	

Diabetes was defined using ICD-9 codes: 250, 357.2, 362.0, 366.41, 648.0, and 775.1. Data are age-standardized to the overall National Hospital Discharge Survey 2010 using age categories <44, 45–64, and ≥65 years. Standard errors were most likely underestimated because the National Hospital Discharge Survey sampling variables were not available, and consequently, it was not possible to take into account the complex sampling design. HIV, human immunodeficiency virus; ICD-9, The International Classification of Diseases, Ninth Revision, is the official system of assigning codes to diagnoses and procedures associated with hospital utilization in the United States.

<sup>1</sup> Relative standard error >30%–40%

<sup>2</sup> Relative standard error >40%–50%

<sup>3</sup> Relative standard error >50%; estimate is too unreliable to present.

SOURCE: National Hospital Discharge Surveys 1999–2010

APPENDIX 30.3. Age-Standardized Percent of Outpatient Visits to a Physician Pertaining to Infections Among Persons With and Without Diabetes, U.S., 1999–2010

	PERCENT (STANDARD ERROR)											
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Diabetes	4.3 (1.19)	2.7 (0.56)	2.9 (1.09) <sup>1</sup>	2.7 (1.03) <sup>1</sup>	5.1 (1.49)	5.1 (1.62) <sup>1</sup>	4.9 (2.05) <sup>2</sup>	3.8 (1.48) <sup>1</sup>	3.5 (0.95)	2.8 (1.10) <sup>1</sup>	1.6 (0.54) <sup>1</sup>	2.6 (0.74)
No diabetes	3.4 (0.35)	3.1 (0.29)	2.6 (0.25)	2.9 (0.22)	3.1 (0.34)	3.0 (0.24)	3.1 (0.22)	3.1 (0.22)	2.6 (0.19)	3.3 (0.29)	3.5 (0.25)	3.6 (0.28)

Diabetes is defined using ICD-9 codes: 250, 357.2, 362.0, 366.41, 648.0, and 775.1. ICD-9 codes used to define infections are as follows: influenza (480–488), sinusitis and bronchitis (461, 466), asymptomatic bacteriuria (791.9), cystitis (595.0), pyelonephritis (590.1, 590.8), perinephric abscess (590.2), oral and vaginal candidiasis (112.0–112.3), onychomycosis (110.1), intertrigo (695.89), cellulitis and impetigo (682, 684), foot ulcers (707.1), necrotizing fasciitis (728.86), Fournier’s gangrene (785.4), osteomyelitis (730.2), sepsis (038), postoperative wound infections (998.59), malignant otitis externa (380.14), mucormycosis (117.7), emphysematous cholecystitis (575.0), HIV (human immunodeficiency virus) (042–044), tuberculosis (010–018). Data are age-standardized to the overall National Ambulatory Medical Care Survey 2010 using age categories <45, 45–64, and ≥65 years. ICD-9, The International Classification of Diseases, Ninth Revision, is the official system of assigning codes to diagnoses and procedures associated with hospital utilization in the United States.

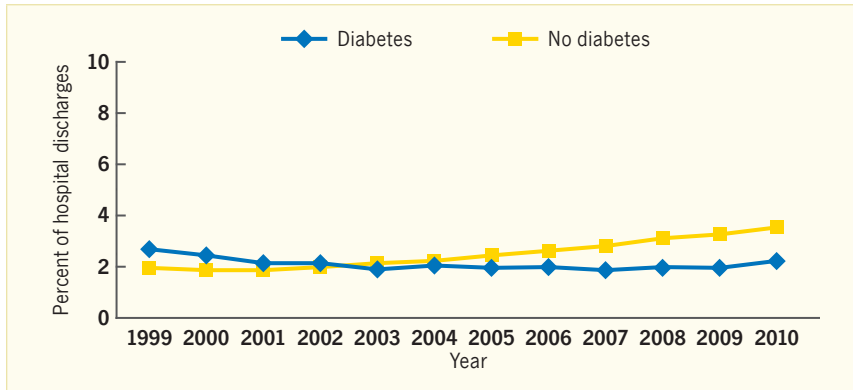
<sup>1</sup> Relative standard error >30%–40%

<sup>2</sup> Relative standard error >40%–50%

SOURCE: National Ambulatory Medical Care Surveys 1999–2010



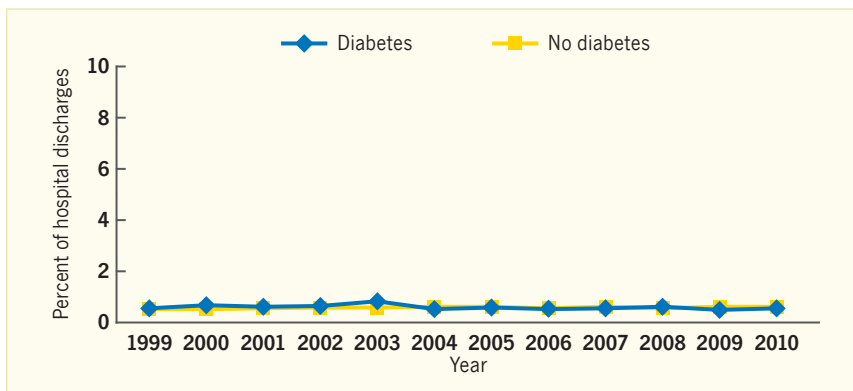
**APPENDIX 30.4.** Age-Standardized Percent of Hospital Discharges Listing Hospital-Acquired Sepsis, by Diabetes Status, U.S., 1999–2010



Diabetes is defined using ICD-9 codes: 250, 357.2, 362.0, 366.41, 648.0, and 775.1. The ICD-9 code used to define sepsis is 038. Data are age-standardized to the overall National Hospital Discharge Survey 2010 using age categories <44, 45–64, and ≥65 years. ICD-9, The International Classification of Diseases, Ninth Revision, is the official system of assigning codes to diagnoses and procedures associated with hospital utilization in the United States.

SOURCE: National Hospital Discharge Surveys 1999–2010

**APPENDIX 30.5.** Age-Standardized Percent of Hospital Discharges Listing Postoperative Wound Infections, by Diabetes Status, U.S., 1999–2010



Diabetes is defined using ICD-9 codes: 250, 357.2, 362.0, 366.41, 648.0, and 775.1. The ICD-9 code used to define postoperative wound infection is 998.59. Data are age-standardized to the overall National Hospital Discharge Survey 2010 using age categories <44, 45–64, and ≥65 years. ICD-9, The International Classification of Diseases, Ninth Revision, is the official system of assigning codes to diagnoses and procedures associated with hospital utilization in the United States.

SOURCE: National Hospital Discharge Surveys 1999–2010