
Section 4

NORA Healthcare and Social Assistance (HAS) Sector

Table 4-1. NORA healthcare and social assistance sector: Number and percent of deaths with selected work-related respiratory condition, U.S. residents age 15 and over, selected states and years, 1990–1999

Condition	Number of Deaths	Percent
All Pneumoconioses	52	0.0
Asbestosis	23	0.0
Malignant Mesothelioma (all sites)*	20	0.0
Coal Workers' Pneumoconiosis	13	0.0
Unspecified and Other Pneumoconioses	9	0.0
Silicosis	6	0.0
Hypersensitivity Pneumonitis	5	0.0
Byssinosis	3	0.0
All other conditions within this sector	265,702	100.0
TOTAL	265,833	100.0

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* data for malignant mesothelioma are for 1999 only.

NOTE: The sum of the individual and all other condition death totals may be greater than the total number of deaths in the selected states and years because some decedents have more than one condition listed on their death certificates. Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-2. NORA healthcare and social assistance sector: Proportionate mortality ratio (PMR) adjusted for age, sex, and race for selected work-related respiratory conditions, U.S. residents age 15 and over, selected states and years, 1990–1999

Condition	Number of Deaths	PMR	95% Confidence Interval	
			LCL	UCL
Hypersensitivity Pneumonitis	5	1.2	0.4	2.8
Malignant Mesothelioma (all sites)*	20	1.1	0.7	1.7
Byssinosis	3	-	-	-
Asbestosis	23	0.4	0.3	0.6
Silicosis	6	0.3	0.1	0.7
Unspecified and Other Pneumoconioses	9	0.3	0.2	0.6
All Pneumoconioses	52	0.3	0.2	0.4
Coal Workers' Pneumoconiosis	13	0.2	0.1	0.3
All other conditions within this sector	265,702			
TOTAL	265,833			

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- indicates no PMR was calculated because there were fewer than 5 deaths.

* data for malignant mesothelioma are for 1999 only.

NOTE: The sum of the individual and all other condition death totals may be greater than the total number of deaths in the selected states and years because some decedents have more than one condition listed on their death certificates. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

Table 4-3. NORA healthcare and social assistance sector and asbestosis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
831	Hospitals	18	78.3
832	Nursing and personal care facilities	2	8.7
	All other industries within this sector	3	13.0
	TOTAL	23	100.0
COC	Occupation		
453	Janitors and cleaners	4	17.4
084	Physicians	2	8.7
095	Registered nurses	2	8.7
448	Supervisors, cleaning and building service workers	2	8.7
585	Plumbers, pipefitters, and steamfitters	2	8.7
	All other occupations within this sector	11	47.8
	Occupation not reported within this sector	0	0.0
	TOTAL	23	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified
 * The total number of deaths with asbestosis reported was 2,859 in these same selected states and years, and the comparable number of asbestosis deaths in the entire United States for this same time period was 10,914.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-4. NORA healthcare and social assistance sector and coal workers' pneumoconiosis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
831	Hospitals	9	69.2
840	Health services, n.e.c.	2	15.4
	All other industries within this sector	2	15.4
	TOTAL	13	100.0
COC	Occupation		
453	Janitors and cleaners	3	23.1
	All other occupations within this sector	10	76.9
	Occupation not reported within this sector	0	0.0
	TOTAL	13	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified
 * The total number of deaths with coal workers' pneumoconiosis reported was 4,893 in these same selected states and years, and the comparable number of coal workers' pneumoconiosis deaths in the entire United States for this same time period was 15,036.
 NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.
 SOURCE: National Center for Health Statistics multiple cause-of-death data.

Table 4-5. NORA healthcare and social assistance sector and silicosis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
831	Hospitals	3	50.0
870	Residential care facilities, without nursing	2	33.3
	All other industries within this sector	1	16.7
	TOTAL	6	100.0
COC	Occupation		
453	Janitors and cleaners	2	33.3
	All other occupations within this sector	4	66.7
	Occupation not reported within this sector	0	0.0
	TOTAL	6	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified
 * The total number of deaths with silicosis reported was 881 in these same selected states and years, and the comparable number of silicosis deaths in the entire United States for this same time period was 2,407.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-6. NORA healthcare and social assistance sector and byssinosis: Most frequently recorded industries on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry		Number of Deaths*	Percent
CIC	Industry		
831	Hospitals	2	66.7
	All other industries within this sector	1	33.3
	TOTAL	3	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified
 * The total number of deaths with byssinosis reported was 81 in these same selected states and years, and the comparable number of byssinosis deaths in the entire United States for this same time period was 125.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-7. NORA healthcare and social assistance sector and unspecified and other pneumoconioses: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
831	Hospitals	5	55.6
	All other industries within this sector	4	44.4
	TOTAL	9	100.0
COC	Occupation		
453	Janitors and cleaners	3	33.3
678	Dental laboratory and medical appliance technicians	2	22.2
696	Stationary engineers	2	22.2
	All other occupations within this sector	2	22.2
	Occupation not reported within this sector	0	0.0
	TOTAL	9	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified

* The total number of deaths with unspecified and other pneumoconioses reported was 1,440 in these same selected states and years, and the comparable number of unspecified and other pneumoconioses deaths in the entire United States for this same time period was 3,384.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-8. NORA healthcare and social assistance sector and all pneumoconioses: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
831	Hospitals	35	67.3
840	Health services, n.e.c.	5	9.6
832	Nursing and personal care facilities	4	7.7
870	Residential care facilities, without nursing	3	5.8
812	Offices and clinics of physicians	2	3.8
871	Social services, n.e.c.	2	3.8
	All other industries within this sector	1	1.9
	TOTAL	52	100.0
COC	Occupation		
453	Janitors and cleaners	11	21.2
447	Nursing aides, orderlies, and attendants	3	5.8
678	Dental laboratory and medical appliance technicians	3	5.8
084	Physicians	2	3.8
095	Registered nurses	2	3.8
203	Clinical laboratory technologists and technicians	2	3.8
448	Supervisors, cleaning and building service workers	2	3.8
449	Maids and housemen	2	3.8
575	Electricians	2	3.8
585	Plumbers, pipefitters, and steamfitters	2	3.8
696	Stationary engineers	2	3.8
	All other occupations within this sector	19	36.5
	Occupation not reported within this sector	0	0.0
	TOTAL	52	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified

* The total number of deaths with all pneumoconioses reported was 10,014 in these same selected states and years, and the comparable number of all pneumoconioses deaths in the entire United States for this same time period was 31,455.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

Table 4-9. NORA healthcare and social assistance sector and malignant mesothelioma: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
831	Hospitals	9	45.0
840	Health services, n.e.c.	3	15.0
812	Offices and clinics of physicians	2	10.0
862	Child day care services	2	10.0
	All other industries within this sector	4	20.0
	TOTAL	20	100.0
COC	Occupation		
447	Nursing aides, orderlies, and attendants	4	20.0
095	Registered nurses	3	15.0
015	Managers, medicine and health	2	10.0
	All other occupations within this sector	10	50.0
	Occupation not reported within this sector	1	5.0
	TOTAL	20	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified
 * The total number of deaths with malignant mesothelioma reported was 541 in these same selected states and year, and the comparable number of malignant mesothelioma deaths in the entire United States for this same time period was 2,484.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-10. NORA healthcare and social assistance sector and hypersensitivity pneumonitis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
831	Hospitals	4	80.0
	All other industries within this sector	1	20.0
	TOTAL	5	100.0
COC	Occupation		
095	Registered nurses	2	40.0
	All other occupations within this sector	3	60.0
	Occupation not reported within this sector	0	0.0
	TOTAL	5	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified

* The total number of deaths with hypersensitivity pneumonitis reported was 122 in these same selected states and years, and the comparable number of hypersensitivity pneumonitis deaths in the entire United States for this same time period was 398.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-11. NORA healthcare and social assistance sector and asthma: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
862	Child day care services	68	1.4	1.1	1.8
840	Health services, n.e.c.	228	1.3	1.1	1.5
831	Hospitals	1,110	1.1	1.1	1.2
	All other industries within this sector	625			
	TOTAL	2,031			
COC	Occupation				
098	Respiratory therapists	13	3.2	1.7	5.4
433	Supervisors, food preparation and service occupations	13	2.6	1.4	4.4
696	Stationary engineers	10	2.5	1.2	4.6
085	Dentists	26	1.9	1.3	2.8
014	Administrators, education and related fields	18	1.8	1.1	2.8
203	Clinical laboratory technologists and technicians	45	1.4	1.1	1.9
095	Registered nurses	415	1.2	1.1	1.3
447	Nursing aides, orderlies, and attendants	427	1.2	1.1	1.3
	All other occupations within this sector	1,043			
	Occupation not reported within this sector	21			
	TOTAL	2,031			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code
n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with asthma reported was 29,703 in these same selected states and years, and the comparable number of asthma deaths in the entire United States for this same time period was 115,729.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-12. NORA healthcare and social assistance sector and chronic obstructive pulmonary disease: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
832	Nursing and personal care facilities	310	1.1	1.0	1.3
831	Hospitals	1,380	1.1	1.0	1.1
	All other industries within this sector	993			
	TOTAL	2,683			
COC	Occupation				
097	Dietitians	58	1.3	1.0	1.7
449	Maids and housemen	107	1.3	1.1	1.6
447	Nursing aides, orderlies, and attendants	548	1.2	1.1	1.3
	All other occupations within this sector	1,935			
	Occupation not reported within this sector	35			
	TOTAL	2,683			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code

n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with chronic obstructive pulmonary disease reported was 57,073 in the same selected states and year, and the comparable number of chronic obstructive pulmonary disease deaths in the entire United States for this same time period was 245,415.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

Table 4-13. NORA healthcare and social assistance sector and respiratory tuberculosis: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
830	Offices and clinics of health practitioners, n.e.c.	13	2.9	1.6	5.0
831	Hospitals	238	1.2	1.0	1.3
	All other industries within this sector	155			
	TOTAL	406			
COC	Occupation				
804	Truck drivers	5	4.2	1.4	9.9
089	Health diagnosing practitioners, n.e.c.	5	3.2	1.0	7.5
203	Clinical laboratory technologists and technicians	15	2.1	1.1	3.4
	All other occupations within this sector	374			
	Occupation not reported within this sector	7			
	TOTAL	406			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code
n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with respiratory tuberculosis reported was 8,071 in these same selected states and years, and the comparable number of respiratory tuberculosis deaths in the entire United States for this same time period was 35,417.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-14. NORA healthcare and social assistance sector and lung cancer: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by occupation, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
COC	Occupation				
205	Health record technologists and technicians	5	3.3	1.1	7.6
	All other occupations within this sector	1,679			
	Occupation not reported within this sector	24			
	TOTAL	1,708			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code

n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with lung cancer reported was 37,562 in these same selected states and year, and the comparable number of lung cancer deaths in the entire United States for this same time period was 162,546.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-15. NORA healthcare and social assistance sector and other interstitial pulmonary diseases: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
812	Offices and clinics of physicians	31	1.8	1.2	2.6
831	Hospitals	128	1.2	1.0	1.5
	All other industries within this sector	108			
	TOTAL	267			
COC	Occupation				
084	Physicians	23	2.1	1.3	3.1
095	Registered nurses	68	1.6	1.2	2.0
	All other occupations within this sector	173			
	Occupation not reported within this sector	3			
	TOTAL	267			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code
n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of other interstitial pulmonary diseases was 4,471 in these same selected states and year, and the comparable number of other interstitial pulmonary diseases deaths in the entire United States for this same time period was 18,655.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.

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Table 4-16. NORA healthcare and social assistance sector and pneumonia and influenza: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
861	Job training and vocational rehabilitation services	20	1.6	1.0	2.5
	All other industries within this sector	2,335			
	TOTAL	2,355			
COC	Occupation				
338	Payroll and timekeeping clerks	6	3.3	1.2	7.2
167	Psychologists	15	1.8	1.0	3.0
	All other occupations within this sector	2,293			
	Occupation not reported within this sector	41			
	TOTAL	2,355			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code

n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with pneumonia and influenza reported was 52,295 in these same selected states and year, and the comparable number of pneumonia and influenza deaths in the entire United States for this same time period was 229,136.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

SOURCE: National Center for Health Statistics multiple cause-of-death data.