

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix A. American Heart Association's (AHA) Life's Simple 7 (LS7) Criteria and How it Applied to the REGARDS Sample

| LS7 metric | Level | AHA LS7 criteria^a | REGARDS criteria |
|--------------------------------|------------------|---|---|
| Blood glucose | Ideal (2) | Fasting untreated glucose <100 mg/dL (goal) | Same as AHA or non-fasting untreated glucose <140 mg/dL |
| | Intermediate (1) | Fasting untreated glucose 100–125 mg/dL, or treated to goal ^b | Same as AHA if fasting, otherwise non-fasting and untreated glucose 140–199 mg/dL or treated glucose <140 mg/dL |
| | Poor (0) | Fasting untreated glucose ≥126 mg/dL, or treated, but not to goal | Same as AHA if fasting, otherwise non-fasting and untreated glucose ≥200 mg/dL or treated glucose ≥140 mg/dL |
| Total cholesterol | Ideal (2) | Untreated total cholesterol <200 mg/dL (goal) | Same |
| | Intermediate (1) | Total cholesterol 200–239 mg/dL, or treated to goal ^b | Same |
| | Poor (0) | Total cholesterol ≥240 mg/dL | Same |
| Blood pressure | Ideal (2) | Untreated systolic blood pressure <120 mm Hg and diastolic blood pressure <80 mm Hg (goal) | Same |
| | Intermediate (1) | Untreated systolic 120–139 mm Hg or diastolic 80–89 mm Hg, or treated to goal ^b | Same |
| | Poor (0) | Untreated systolic ≥140 mm Hg or diastolic ≥90 mm Hg, or treated, but not to goal | Same |
| Physical activity ^c | Ideal (2) | ≥150 minutes/week of moderate exercise or ≥75 minutes/week of vigorous exercise, or a combination of both | Intense physical activity (enough to work up a sweat) ≥4 times per week |
| | Intermediate (1) | 1–149 minutes/week of moderate exercise or 1–74 minutes/week vigorous exercise, or a combination of both | Intense physical activity (enough to work up a sweat) 1–3 times per week |
| | Poor (0) | None | No intense physical activity |
| Smoking | Ideal (2) | Never smoker or quit >12 months ago | Same |
| | Intermediate (1) | Former smoker and quit ≤12 months ago | Same |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | |
|---------------------------------|---------------------|--------------------------------|--|
| | Poor (0) | Current smoker | Same |
| Healthy diet score ^d | Ideal (2) | Satisfy 4–5 dietary components | Same |
| | Intermediate (1) | Satisfy 2–3 dietary goals | Satisfy 2–3 dietary goals (or if missing) ^e |
| | Poor (0) | Satisfy 0–1 dietary goals | Same |
| BMI | Ideal (2) | <25 kg/m ² | Same |
| | Intermediate (1) | 25–29.9 kg/m ² | Same |
| | Poor (0) | ≥30 kg/m ² | Same |

^aAHA definitions for cardiovascular health according to Lloyd-Jones DM et al. 2010.

^bTreated to goal means the participant is taking prescription medications and corresponding physiologic measures were in the “ideal” range.

^cREGARDS physical activity question: *how many times do you engage in intense physical activity, enough to work up a sweat?*

^dREGARDS Study participants reported dietary intake at enrollment for the prior 12 months using the Block Food Frequency Questionnaire (Block G et al. 1992). The healthy diet score was constructed from the number of diet goals that were met (up to 5) per AHA criteria.

^eParticipants with missing values for the healthy diet subcomponent (n=1,518) were assigned to the intermediate category as described in methods.

Appendix B. Prevalence of Individual Life's Simple 7 Measures by Occupation

INDIVIDUAL CLINICAL HEALTH FACTORS BY OCCUPATION

The prevalence of individual clinical health factors among those free of CHD/stroke is shown in Table 3 by occupation. The prevalence of ideal glucose was 78.1% overall and significantly higher for those employed in the education, training, and library occupation group. The prevalence of ideal total cholesterol was 40.6% overall and significantly lower among services workers as a whole (32.4%), driven largely by protective service workers (23.3%); other groups with significantly lower ideal total cholesterol included sales and related occupations (30.9%). One-third of middle-age and older U.S. workers have ideal BP, with the broad construction, mining, maintenance installation and repair, farming, fishing, and forestry occupation groups combined having significantly higher (38%) and the broad services occupation group having significantly lower ideal BP (21.9%).

The prevalence of sub-optimal (intermediate or poor) clinical health factors also varied by occupation. Production workers were significantly more likely to have intermediate blood glucose (25.7% and 33.5%, respectively). The prevalence of intermediate total cholesterol was significantly elevated for those employed in protective services (74.7%) and sales and related occupations (58.6%). The prevalence of intermediate BP was highest for scientists (69.4%), while the following groups had a significantly higher prevalence of poor BP: the broad category of sales, office and administrative support (19.2%), and the more detailed protective service (35.3%) and sales and related (23.2%) occupations.

INDIVIDUAL BEHAVIORAL HEALTH FACTORS BY OCCUPATION

The prevalence of individual behavioral health factors among those free of CDH/stroke is shown in Table 4 by occupation. Ideal BMI was 29.9% overall and was most prevalent in the broad group of management and professional occupations (33.1% overall), driven by healthy BMI among those employed in the arts, design, sports, entertainment, and media occupations (43.2%). Ideal BMI was least prevalent among service occupations (20.9% overall), driven by healthcare support (14.3%), and protective service workers (9.6%). Ideal diet quality was 0% overall and was not attained by any occupation group, although managers had a higher prevalence of intermediate-level diet quality. Ideal physical activity levels were 31.5% overall and highest among managers (40.1%) and farm, fishing, forestry and construction, mining workers (48.3%) and lowest among those in sales (24%), and office and administrative (18.4%) occupations.

The overall prevalence of intermediate BMI was 37.2% and varied by occupation group, with significantly higher prevalence for protective service (61.3%) and sales and related (47.2%) occupations. The prevalence of obesity (poor BMI) was 32.9% overall and did not vary by occupation group. Poor diet was more prevalent among those in food preparation and serving (79.4%), healthcare support (74.8%), business and finance (71.9%), and office and administrative (67.9%) occupations. The prevalence of poor physical activity exceeded one-third of sales and office and administrative workers and occurred among one-quarter of management and professional occupations.

Smoking-related health behavior is reported among those free of CDH/stroke in Table 5 by occupation. Among the occupational groups classified as “professionals” (computer and math

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

sciences through healthcare practitioners and technical), most had a significantly higher prevalence of ideal smoking. Managers had the lowest smoking intensity. Three professional occupational groups had significantly lower smoking histories: one-third of those employed in education, training, and library had ever smoked, and healthcare practitioners and community and social service workers had significantly lower pack-years; however, pack-years were significantly elevated for architects/engineers and business and finance professionals. A significantly higher prevalence of (poor) smoking was found among transportation and material moving workers and sales and office and administrative workers. Smoking intensity levels were highest for personal care, construction, extraction, farming and forestry, and installation, maintenance and repair occupations. In addition to having the highest prevalence of smoking (21.8%), transportation and material moving workers had the highest smoking history rates. Those employed in the farming, fishing, and forestry industries were most likely to have quit smoking cigarettes in the past year (10.2%), but had the highest prevalence of using chewing tobacco or snuff (13.3%). Healthcare support workers had the highest prevalence (11.2%) of smoking other tobacco products (i.e., pipes, cigars).

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table B1. Prevalence^a of Clinical Health Risk Factors Among Workers Aged ≥45 Years Free of Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | Blood glucose | | | Total cholesterol | | | Blood pressure | | |
|---|---------------|----------------|------------|-------------------|----------------|------------|----------------|----------------|-------------|
| | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % |
| Overall | 78.1 | 15.7 | 6.2 | 40.6 | 47.9 | 11.5 | 33.4 | 52.9 | 13.8 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 79.6 | 14.2 | 6.1 | 41.2 | 48.3 | 10.5 | 35.6 | 54.2 | 10.2 |
| Service | 72.6 | 18.7 | 8.8 | 32.4 | 50.8 | 16.8 | 21.9 | 58.1 | 20.1 |
| Sales, office, administrative support | 80.5 | 14.4 | 5.1 | 38.2 | 49.2 | 12.6 | 32.9 | 47.9 | 19.2 |
| National resources, construction, maintenance | 68.8 | 22.7 | 8.5 | 47.2 | 43.3 | 9.5 | 38.0 | 48.1 | 14.0 |
| Production, transportation, material moving | 70.8 | 24.2 | 5.0 | 50.0 | 39.0 | 11.0 | 28.4 | 54.1 | 17.5 |
| Major occupation categories | | | | | | | | | |
| Management | 81.3 | 14.1 | 4.6 | 39.5 | 53.7 | 6.8 | 34.8 | 54.6 | 10.6 |
| Business and finance | 71.9 | 18.4 | 9.7 | 47.7 | 40.0 | 12.3 | 30.6 | 57.7 | 11.7 |
| Computer and math sciences | 79.5 | 17.0 | 3.4 | 41.7 | 46.9 | 11.4 | 29.0 | 51.9 | 19.1 |
| Architecture and engineering | 78.8 | 14.3 | 7.0 | 48.9 | 47.0 | 4.2 | 36.4 | 54.2 | 9.5 |
| Life, physical, and social sciences | 85.7 | 9.9 | 4.4 | 39.7 | 48.7 | 11.6 | 23.3 | 69.4 | 7.3 |
| Community and social services | 77.3 | 14.1 | 8.6 | 38.1 | 48.8 | 13.0 | 38.8 | 48.4 | 12.7 |
| Legal | 61.5 | 26.2 | 12.3 | 49.6 | 28.1 | 22.3 | 27.8 | 65.6 | 6.5 |
| Education, training, and library | 84.4 | 11.2 | 4.4 | 38.4 | 49.2 | 12.3 | 34.3 | 56.0 | 9.7 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|------|-------------|------|-------------|-------------|------------|------|-------------|-------------|
| Arts, entertainment, sports, media | 80.5 | 13.7 | 5.8 | 50.0 | 39.4 | 10.6 | 47.2 | 41.1 | 11.7 |
| Healthcare practitioner and technical | 79.3 | 12.9 | 7.8 | 36.4 | 52.6 | 11.0 | 42.8 | 50.6 | 6.6 |
| Healthcare support | 75.2 | 17.7 | 7.1 | 30.6 | 46.8 | 22.5 | 23.8 | 67.6 | 8.6 |
| Protective services | 63.7 | 28.5 | 7.8 | 23.3 | 74.7 | 2.0 | 18.7 | 46.0 | 35.3 |
| Food preparation and serving related | 77.0 | 14.3 | 8.6 | 30.2 | 46.4 | 23.5 | 21.6 | 68.5 | 9.8 |
| Building and grounds cleaning, maintenance | 73.4 | 18.0 | 8.6 | 36.9 | 48.1 | 15.0 | 15.0 | 63.7 | 21.3 |
| Personal care and services | 74.4 | 15.1 | 10.5 | 37.3 | 40.9 | 21.8 | 28.4 | 51.7 | 20.0 |
| Sales and related | 79.2 | 15.6 | 5.2 | 30.9 | 58.6 | 10.6 | 34.8 | 42.1 | 23.2 |
| Office and administrative support | 81.7 | 13.4 | 4.9 | 44.4 | 41.2 | 14.4 | 31.2 | 52.9 | 15.9 |
| Construction, extraction, farming, forestry | 69.7 | 21.4 | 8.9 | 44.1 | 42.5 | 13.4 | 36.9 | 49.7 | 13.4 |
| Installation, maintenance and repair | 67.5 | 24.7 | 7.9 | 51.8 | 44.5 | 3.7 | 39.5 | 45.7 | 14.8 |
| Production occupations | 69.7 | 25.7 | 4.7 | 50.0 | 39.5 | 10.5 | 33.0 | 54.0 | 13.0 |
| Transportation and material moving | 72.4 | 22.2 | 5.4 | 49.9 | 38.4 | 11.7 | 22.2 | 54.3 | 23.6 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table B2. Prevalence^a of Behavioral Health Risk Factors Among Workers Aged ≥45 Years Free of Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | BMI | | | Diet quality | | | Physical activity | | |
|---|-------------|----------------|--------|--------------|----------------|-------------|-------------------|----------------|-------------|
| | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % |
| Overall | 29.9 | 37.2 | 32.9 | 0.0 | 38.3 | 61.7 | 31.5 | 41.2 | 27.3 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 33.1 | 35.6 | 31.3 | 0.0 | 40.8 | 59.2 | 33.9 | 41.4 | 24.6 |
| Service | 20.9 | 42.0 | 37.1 | 0.0 | 36.4 | 63.6 | 31.3 | 41.8 | 27.0 |
| Sales, office, administrative support | 28.0 | 38.6 | 33.3 | 0.0 | 32.5 | 67.5 | 21.0 | 41.4 | 37.6 |
| National resources, construction, maintenance | 19.4 | 43.9 | 36.7 | 0.0 | 36.1 | 63.9 | 41.9 | 41.7 | 16.3 |
| Production, transportation, material moving | 27.3 | 36.2 | 36.6 | 0.0 | 40.9 | 59.1 | 37.8 | 38.2 | 24.1 |
| Major occupation categories | | | | | | | | | |
| Management | 32.7 | 40.1 | 27.2 | 0.0 | 46.0 | 54.0 | 40.1 | 35.7 | 24.2 |
| Business and finance | 31.3 | 29.7 | 39.0 | 0.0 | 28.1 | 71.9 | 31.3 | 39.4 | 29.2 |
| Computer and math sciences | 16.3 | 47.7 | 36.0 | 0.0 | 31.5 | 68.5 | 19.4 | 54.9 | 25.6 |
| Architecture and engineering | 35.8 | 40.6 | 23.5 | 0.0 | 32.5 | 67.5 | 41.2 | 50.3 | 8.5 |
| Life, physical, and social sciences | 28.4 | 50.0 | 21.6 | 0.0 | 47.4 | 52.6 | 40.1 | 36.8 | 23.1 |
| Community and social services | 24.2 | 34.6 | 41.3 | 0.0 | 42.4 | 57.6 | 27.4 | 31.9 | 40.7 |
| Legal | 36.9 | 19.6 | 43.6 | 0.0 | 58.4 | 41.7 | 20.2 | 39.7 | 40.1 |
| Education, training, and library | 36.1 | 35.5 | 28.4 | 0.0 | 39.5 | 60.5 | 34.2 | 43.3 | 22.5 |
| Arts, entertainment, sports, media | 43.2 | 26.6 | 30.2 | 0.0 | 37.8 | 62.2 | 37.2 | 48.1 | 14.7 |
| Healthcare practitioner and technical | 34.0 | 30.7 | 35.3 | 0.0 | 37.2 | 62.8 | 27.4 | 49.7 | 22.9 |
| Healthcare support | 14.3 | 32.2 | 53.5 | 0.0 | 25.2 | 74.8 | 22.1 | 39.6 | 38.3 |
| Protective services | 9.6 | 61.3 | 29.1 | 0.0 | 26.0 | 74.0 | 22.5 | 57.6 | 19.9 |
| Food preparation and serving related | 26.0 | 19.1 | 54.9 | 0.0 | 20.6 | 79.4 | 33.0 | 49.2 | 17.8 |
| Building and grounds cleaning, maintenance | 17.6 | 52.6 | 29.7 | 0.0 | 56.9 | 43.1 | 45.2 | 23.4 | 31.4 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|------|-------------|------|-----|-------------|-------------|-------------|------|-------------|
| Personal care and services | 32.4 | 37.0 | 30.6 | 0.0 | 41.6 | 58.4 | 30.8 | 42.7 | 26.6 |
| Sales and related | 26.7 | 47.2 | 26.1 | 0.0 | 32.9 | 67.1 | 24.0 | 38.3 | 37.7 |
| Office and administrative support | 29.1 | 31.3 | 39.6 | 0.0 | 32.1 | 67.9 | 18.4 | 44.0 | 37.6 |
| Construction, extraction, farming, forestry | 25.9 | 42.5 | 31.6 | 0.0 | 35.1 | 64.9 | 48.3 | 37.7 | 14.0 |
| Installation, maintenance and repair | 10.0 | 46.0 | 44.0 | 0.0 | 37.6 | 62.4 | 32.8 | 47.5 | 19.7 |
| Production occupations | 24.8 | 35.7 | 39.5 | 0.0 | 43.6 | 56.4 | 36.3 | 36.6 | 27.1 |
| Transportation and material moving | 30.6 | 36.8 | 32.6 | 0.0 | 37.4 | 62.6 | 39.7 | 40.3 | 20.0 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table B3. Prevalence^a of Smoking Behaviors Among U.S. Workers Aged ≥45 Years Free of Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | Cigarette smoking | | | Current smoking intensity ^{d,e} Median (IQR) | Other tobacco use | | Smoking history | |
|---|-------------------|----------------|-------------|--|-------------------|--------------|-----------------|---|
| | Ideal % | Intermediate % | Poor % | | Smoke % | Chew/Snuff % | Ever smoke % | Pack-years ^e Median (IQR) |
| Overall | 88.3 | 1.1 | 10.6 | 0.8 (0.3–1) | 4.6 | 1.5 | 44.6 | 14 (4–28) |
| Broad occupation categories | | | | | | | | |
| Management, professional | 92.4 | 1.3 | 6.4 | 0.5 (0.1–1) | 5.0 | 1.7 | 40.3 | 11.8 (3–23) |
| Service | 84.3 | 0.5 | 15.2 | 0.8 (0.4–1) | 4.4 | 0.6 | 48.5 | 12 (4–20) |
| Sales, office, administrative support | 82.0 | 0.8 | 17.1 | 0.8 (0.4–1) | 2.7 | 0.3 | 50.8 | 17.5 (4–37) |
| Construction, maintenance, farming | 87.0 | 1.1 | 11.9 | 1.0 (0.8–1) | 7.9 | 1.8 | 51.3 | 16 (6–34) |
| Production, transportation, material moving | 80.6 | 1.0 | 18.4 | 1.0 (0.5–1) | 5.2 | 3.8 | 50.7 | 20 (6–34) |
| Major occupation categories | | | | | | | | |
| Management | 91.3 | 2.4 | 6.3 | 0.4 (0.1–1) | 7.0 | 3.3 | 39.1 | 10 (2–23) |
| Business and finance | 88.4 | 0.0 | 11.5 | 1.0 (0.4–1) | 9.2 | 2.3 | 51.4 | 15 (8–23) |
| Computer and math sciences | 93.4 | 2.2 | 4.4 | 0.0 (0–0.8) | 5.7 | 1.0 | 46.2 | 12 (4–25) |
| Architecture and engineering | 97.7 | 0.1 | 2.2 | 1.0 (0.4–2.5) | 8.6 | 1.6 | 40.7 | 15 (11–32) |
| Life, physical, and social sciences | 97.8 | 0.2 | 2.0 | 0.5 (0.5–0.5) | 2.6 | 1.6 | 45.3 | 10 (5–12) |
| Community and social services | 93.9 | 1.4 | 4.7 | 0.5 (0.5–1) | 5.2 | 0.2 | 45.9 | 8 (3–16) |
| Legal | 95.2 | 0.0 | 4.8 | 0.6 (0.3–1) | 0.0 | 0.2 | 40.3 | 8 (2–33) |
| Education, training, and library | 95.4 | 1.1 | 3.5 | 0.5 (0.2–1) | 2.6 | 1.7 | 33.3 | 11.8 (3–23) |
| Arts, entertainment, sports, media | 83.7 | 0.9 | 15.4 | 0.5 (0.1–1) | 6.1 | 0.1 | 48.6 | 14 (5–30) |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | |
|---|-------------|------------|-------------|--------------------|-------------|------------|-------------|-------------------|
| Healthcare practitioner and technical | 92.0 | 0.6 | 7.4 | 0.8 (0.5–1) | 2.0 | 0.4 | 36.7 | 7.8 (1–23) |
| Healthcare support | 81.2 | 0.0 | 18.8 | 0.8 (0.5–1) | 11.2 | 0.3 | 53.0 | 10 (1–15) |
| Protective services | 80.5 | 1.4 | 18.1 | 0.5 (0.5–1) | 2.8 | 1.2 | 50.1 | 12.5 (7–26) |
| Food preparation and serving related | 92.4 | 0.0 | 7.6 | 0.5 (0.1–1) | 8.1 | 1.2 | 38.6 | 11.5 (1–23) |
| Building and grounds cleaning, maintenance | 80.5 | 0.2 | 19.3 | 0.5 (0.1–1.5) | 4.0 | 0.4 | 54.6 | 10 (5–30) |
| Personal care and services | 87.5 | 0.7 | 11.7 | 1.0 (0.5–1) | 0.4 | 0.3 | 45.0 | 15 (4–28) |
| Sales and related | 82.0 | 0.7 | 17.3 | 0.8 (0.5–1) | 2.2 | 0.1 | 54.4 | 18 (4–39) |
| Office and administrative support | 82.1 | 0.9 | 17.0 | 0.5 (0.3–1) | 3.1 | 0.5 | 47.6 | 15 (3–36) |
| Construction, extraction, farming, forestry | 84.7 | 1.9 | 13.4 | 1.0 (1–1) | 7.0 | 1.8 | 59.0 | 11.5 (6–36) |
| Installation, maintenance and repair | 90.2 | 0.0 | 9.8 | 1.0 (0.8–1) | 9.3 | 1.9 | 40.0 | 17 (11–28) |
| Production occupations | 83.1 | 1.0 | 15.9 | 0.8 (0.5–1.5) | 2.6 | 5.1 | 43.1 | 18 (8–40) |
| Transportation and material moving | 77.3 | 0.9 | 21.8 | 1.0 (0.5–1) | 8.6 | 2.0 | 60.9 | 20 (6–30) |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dSmoking intensity refers to the number of packs of cigarettes smoked per day (20 per pack) among current (i.e., “poor”) smokers.

^eMedian (interquartile range [IQR]: 25th and 75th percentile).

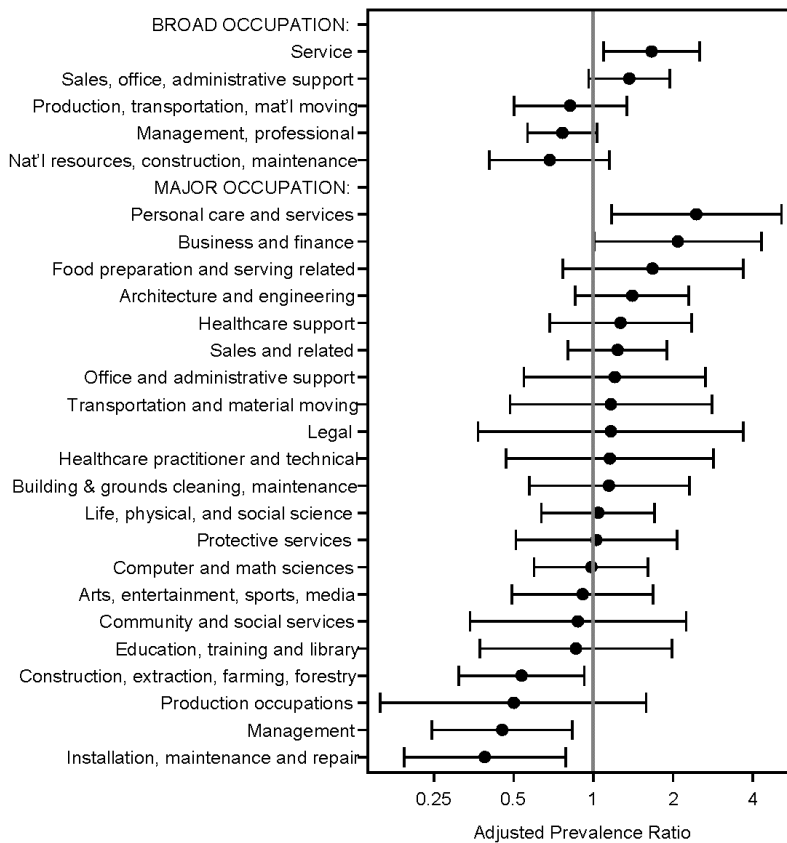
Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

APPENDIX C. SENSITIVITY ANALYSIS 1.

Prevalence Results for Workers Aged 45-64 Years Free of Coronary Heart Disease and Stroke

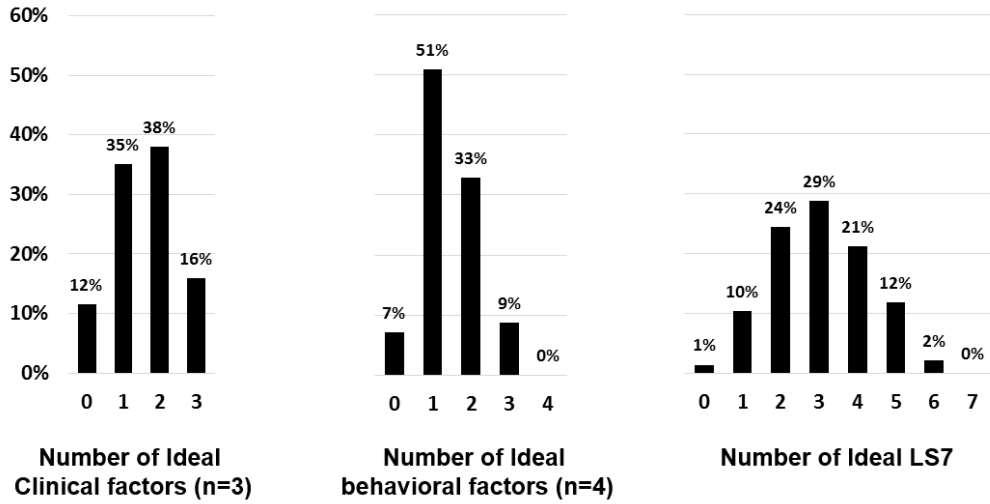
(Excluding the Oldest Age Group Aged >65 Years)

Appendix Figure C1. Adjusted prevalence ratios for coronary heart disease/stroke by broad and major occupation group among U.S. workers aged 45-64 years. In statistical testing each employment group was compared with all other groups combined; bars indicate 95% CIs.



Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Figure C2. The proportion of U.S. workers aged 45-64 years free of coronary heart disease/stroke by the number of ideal cardiovascular risk factors for three clinical factors, four behavioral factors, and all seven LS7 factors.



LS7, American Heart Association's Life's Simple 7 framework

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table C1. Prevalence^a of Composite Cardiovascular Risk Factor Measures for AHA LS7 (7-items), Composite Clinical Health (3-items) and Composite Behavioral Health (4-items) Among U.S. Workers Aged 45-64 Years Free of Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | Composite LS7 | | | Composite clinical health | | | Composite behavioral health | | |
|---|-------------------|-------------------|------------------------|---------------------------|-------------|--------------|-----------------------------|-------------|-------------------------|
| | Optimal % | Moderate % | Inadequate % | Optimal % | Moderate % | Inadequate % | Optimal % | Moderate % | Inadequate % |
| Overall | 31.5 | 65.0 | 3.6 | 47.4 | 50.4 | 2.2 | 17.2 | 68.7 | 14.1 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 35.7 | 61.9 | 2.4 | 50.2^d | 48.0 | 1.8 | 19.4 | 70.3 | 10.3 |
| Service | 21.8 | 71.1 ^d | 7.1^d | 32.4 | 64.3 | 3.4 | 15.5 | 64.9 | 19.6 |
| Sales, office, administrative support | 23.8 | 70.6 | 5.6 | 48.7 | 48.7 | 2.5 | 11.3 | 65.3 | 23.4 |
| National resources, construction, maintenance | 27.3 | 70.8 | 1.9 | 39.7 | 57.6 | 2.7 | 14.1 | 77.3 | 8.6 |
| Production, transportation, material moving | 32.5 | 63.1 | 4.4 | 44.0 | 53.3 | 2.7 | 19.6 | 64.0 | 16.4 |
| Major occupation categories | | | | | | | | | |
| Management | 35.6 ^d | 61.4 ^d | 3.0 | 50.4 | 47.4 | 2.2 | 18.0 | 72.6 | 9.3 ^d |
| Business and finance | 25.1 | 74.2 | 0.7^d | 46.7 | 52.1 | 1.1 | 12.9 | 63.8 | 23.3^d |
| Computer and math sciences | 26.2 | 71.6 | 2.1 | 44.0 | 54.5 | 1.4 | 4.6 | 82.1 | 13.3 |
| Architecture and engineering | 41.8 ^d | 55.3 ^d | 2.8 | 49.3 | 49.3 | 1.4 | 24.4 | 68.2 | 7.4 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|--|-------------------|-------------------------|-------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| Life, physical, and social sciences | 40.9 | 57.6 | 1.5 | 42.2 | 55.9 | 2.0 | 29.2 ^d | 66.8 | 4.0^d |
| Community and social services | 34.9 | 62.2 | 2.9 | 52.2 | 45.5 | 2.3 | 22.0 | 69.8 | 8.2 |
| Legal | 38.8 | 60.9 | 0.3 | 50.6 | 49.4 | 0.0 | 18.7 | 73.7 | 7.6 ^d |
| Education, training, and library | 38.0 | 60.1 | 1.9 | 51.4 | 47.8 | 0.7^d | 23.9 | 66.6 | 9.4 |
| Arts, entertainment, sports, media | 38.1 | 59.0 | 2.8 | 59.4 | 37.7 ^d | 3.0^d | 26.9 | 67.6 | 5.5 |
| Healthcare practitioner and technical | 36.9 | 60.2 | 2.9 | 48.9 | 48.2 | 2.9 | 15.5 | 72.9 | 11.5 ^d |
| Healthcare support | 15.0 | 79.1^d | 5.9 | 38.7 | 59.4 | 1.9 | 3.5 | 69.2 | 27.2 |
| Protective services | 21.4 | 60.9 | 17.7 | 30.1 ^d | 68.8 ^d | 1.1 | 11.0 | 61.0 | 28.0 |
| Food preparation and serving related | 30.5 | 67.7 | 1.8 | 35.2 ^d | 62.8 ^d | 2.0 | 15.0 | 74.2 | 10.8 |
| Building and grounds cleaning, maintenance | 29.7 | 66.4 | 3.9 | 28.9 | 66.5 | 4.6 | 33.9^d | 46.2^d | 19.9 |
| Personal care and services | 18.0 | 76.7 | 5.3 | 30.7^d | 63.7^d | 5.6 | 14.8 | 72.9 | 12.3 |
| Sales and related | 23.6 ^d | 70.0 | 6.4 | 48.7 | 47.3 | 4.0 | 9.8^d | 70.0 | 20.2^d |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|-------------|-------------------------|-----|------|------|------------------|------|------|-------------|
| Office and administrative support | 23.9 | 71.1 | 5.0 | 48.8 | 49.8 | 1.5 | 12.4 | 61.9 | 25.7 |
| Construction, extraction, farming, forestry | 19.3 | 78.4^d | 2.2 | 37.1 | 60.6 | 2.3 | 10.7 | 78.1 | 11.2 |
| Installation, maintenance and repair | 37.1 | 61.4 | 1.5 | 42.8 | 53.9 | 3.3 | 18.4 | 76.2 | 5.4 |
| Production occupations | 40.3 | 55.2 | 4.5 | 49.7 | 46.5 | 3.8 | 18.5 | 64.1 | 17.4 |
| Transportation and material moving | 21.3 | 74.4 | 4.4 | 35.9 | 63.0 | 1.2 ^d | 21.3 | 63.9 | 14.9 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results with the sample free of coronary heart disease/stroke to results involving the full sample (i.e., those with and without evidence of coronary heart disease/stroke).

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table C2. Prevalence^a of Clinical Health Risk Factors Among U.S. Workers Aged 45-64 Years Free of Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | Blood glucose | | | Total cholesterol | | | Blood pressure | | |
|---|-------------------------|-------------------------|------------------|-------------------------|-------------------|-------------------------|----------------|-------------------------|------------------------|
| | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % |
| Overall | 77.9 | 15.9 | 6.2 | 42.9 | 45.9 | 11.2 | 37.5 | 50.9 | 11.6 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 80.9^d | 13.4^d | 5.7 | 43.4 | 46.6 | 10.0 | 38.7 | 51.6 | 9.7 |
| Service | 71.1 | 19.4 | 9.5 | 33.6 | 49.3 | 17.1^d | 29.0 | 54.2 | 16.8 |
| Sales, office, administrative support | 78.4 | 15.5 | 6.0 | 41.6 | 45.8 | 12.6 | 38.9 | 48.8 ^d | 12.3 ^d |
| National resources, construction, maintenance | 65.6 | 25.9 | 8.5 | 44.2 | 44.5 | 11.3 | 39.3 | 46.9 | 13.8 |
| Production, transportation, material moving | 68.7 | 26.5 | 4.8 ^d | 52.0^d | 37.0 | 10.3 | 32.7 | 50.0 | 17.4 |
| Major occupation categories | | | | | | | | | |
| Management | 80.6 | 14.9 | 4.5 | 40.2 | 50.9 | 9.0 ^d | 37.4 | 54.4 | 8.1^d |
| Business and finance | 76.9 | 16.7 | 6.5 | 49.9 | 36.7 | 13.4 | 35.6 | 53.8 | 10.7 |
| Computer and math sciences | 79.2 | 17.1 | 3.8 | 44.6 | 43.2 | 12.2 | 30.6 | 51.9 | 17.5 |
| Architecture and engineering | 76.8 | 14.8 | 8.4 | 51.4 | 43.7 | 4.8 | 28.1 | 60.9 | 11.1 |
| Life, physical, and social sciences | 87.7^d | 6.7 | 5.6 | 42.4 | 42.2 | 15.4 | 29.8 | 62.0 ^d | 8.2 |
| Community and social services | 79.1 | 13.3 | 7.7 | 41.8 | 50.7 | 7.5 | 43.2 | 42.4 | 14.5 |
| Legal | 84.4 | 8.8 | 6.8 | 49.4 | 46.9 ^d | 3.7 | 28.7 | 59.8 | 11.5 |
| Education, training, and library | 84.5 | 10.9 | 4.7 | 42.8 | 47.1 | 10.1 | 39.8 | 51.6 | 8.6 |
| Arts, entertainment, sports, media | 78.6 | 14.2 | 7.2 | 54.9^d | 36.0 | 9.1 | 45.5 | 43.0 | 11.5 |
| Healthcare practitioner and technical | 80.1 | 12.5 | 7.4 | 37.7 | 49.6 | 12.7 | 47.3 | 44.8 | 7.9 ^d |
| Healthcare support | 78.0 | 14.0 | 7.9 | 29.9 | 45.1 | 24.9^d | 24.9 | 68.0^d | 7.1 |
| Protective services | 60.0 | 31.8 | 8.3 | 26.2 ^d | 70.8 | 3.0 | 28.1 | 51.5 | 20.5 ^d |
| Food preparation and serving related | 67.4 | 21.7 | 10.9 | 46.8 | 39.1 | 14.1 | 34.5 | 55.7 | 9.8 |
| Building and grounds cleaning, maintenance | 70.9 | 23.3 | 5.8 | 36.0 | 45.6 | 18.5 | 21.5 | 55.8 | 22.7 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|------|-------------|------|-------------------|-------------------|------|-------------------------|-------------------|-------------------------|
| Personal care and services | 75.3 | 11.6 | 13.1 | 33.8 | 44.9 | 21.3 | 35.2 | 45.0 | 19.9^d |
| Sales and related | 77.1 | 15.8 | 7.1 | 36.3 ^d | 50.7 ^d | 13.0 | 42.0 | 43.8 ^d | 14.2 ^d |
| Office and administrative support | 79.4 | 15.4 | 5.2 | 45.4 | 42.2 ^d | 12.3 | 36.6 | 52.5 | 10.9 |
| Construction, extraction, farming, forestry | 67.8 | 23.3 | 9.0 | 39.5 | 43.7 | 16.8 | 41.4^d | 46.4 | 12.2 |
| Installation, maintenance and repair | 63.0 | 29.0 | 8.0 | 49.9 | 45.6 | 4.5 | 36.7 | 47.5 | 15.8 |
| Production occupations | 68.4 | 27.3 | 4.4 | 53.9 | 35.1 | 10.9 | 38.0 | 49.9 | 12.1 |
| Transportation and material moving | 69.2 | 25.4 | 5.4 | 50.8 | 39.7 | 9.4 | 25.0 | 50.0 | 25.0 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results with the sample free of coronary heart disease/stroke to results involving the full sample (i.e., those with and without evidence of coronary heart disease/stroke).

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table C3. Prevalence^a of Behavioral Health Risk Factors Among U.S. Workers Aged 45-64 Years Free of Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | BMI | | | Diet quality | | | Physical activity | | |
|---|-------------------------|-------------------------|-------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % |
| Overall | 27.9 | 37.0 | 35.4 | 0.0 | 37.8 | 62.2 | 28.9 | 45.6 | 25.6 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 30.6 | 36.7 | 32.7^d | 0.0 | 39.2 ^d | 60.8 ^d | 29.9 ^d | 45.6 | 24.5 ^d |
| Service | 22.7 ^d | 37.1 ^d | 40.2 | 0.0 | 41.3 | 58.7 | 27.5 | 47.3 | 25.2 |
| Sales, office, administrative support | 23.1^d | 35.2 | 41.8^d | 0.0 | 30.6 | 69.4 | 21.6 | 45.6 | 32.8 |
| National resources, construction, maintenance | 15.2 | 47.4 | 37.5 | 0.0 | 40.8 | 59.2 | 40.0 | 44.1 | 15.9 |
| Production, transportation, material moving | 30.2 | 36.7 | 33.1 | 0.0 | 40.1 | 59.9 | 34.5 | 44.5 | 21.1 |
| Major occupation categories | | | | | | | | | |
| Management | 27.0 | 40.5 | 32.5 | 0.0 | 45.8 | 54.2 | 31.4 ^d | 41.9 ^d | 26.7 |
| Business and finance | 31.5 | 29.0 | 39.5 | 0.0 | 28.8 ^d | 71.2 | 26.5 | 39.0 | 34.5 |
| Computer and math sciences | 16.1 | 48.7 | 35.1 | 0.0 | 29.5 | 70.5 | 21.1 | 54.5 | 24.4 |
| Architecture and engineering | 28.7 | 42.9 | 28.4 | 0.0 | 34.5 | 65.5 | 49.2^d | 41.8 | 9.0 |
| Life, physical, and social sciences | 35.1 | 44.6 | 20.3 | 0.0 | 40.9 | 59.1 | 32.3 | 45.3 | 22.3 |
| Community and social services | 27.1 | 42.7 | 30.1 | 0.0 | 41.5 | 58.5 | 32.0 | 42.0 | 26.0 |
| Legal | 35.0 | 32.2 ^d | 32.8 | 0.0 | 33.9 | 66.1 | 25.7 | 60.1^d | 14.2 |
| Education, training, and library | 33.6 | 34.6 | 31.8 | 0.0 | 39.2 | 60.8 | 29.4 | 45.2 | 25.4 ^d |
| Arts, entertainment, sports, media | 39.3 ^d | 28.3 | 32.3 | 0.0 | 37.4 | 62.6 | 36.9 | 46.3 | 16.8 ^d |
| Healthcare practitioner and technical | 33.8 | 30.7 | 35.5 | 0.0 | 37.0 | 63.0 | 21.0 | 54.2 | 24.8 ^d |
| Healthcare support | 11.9 ^d | 35.7 | 52.4 | 0.0 | 27.7 ^d | 72.3 | 19.8 | 42.8 | 37.3 |
| Protective services | 12.5 ^d | 51.1 ^d | 36.5 | 0.0 | 25.4 | 74.6^d | 17.2 | 60.3 | 22.5 |
| Food preparation and serving related | 29.8 | 15.0^d | 55.2 | 0.0 | 24.3 ^d | 75.7 | 24.7 | 48.2 | 27.2 |
| Building and grounds cleaning, maintenance | 24.1 | 43.2 | 32.7 | 0.0 | 66.5^d | 33.5^d | 44.9 | 32.9 ^d | 22.2 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|------|-------------------|-------------------------|-----|-------------------------|-------------------------|-------------------|------|-------------------------|
| Personal care and services | 32.8 | 34.0 | 33.2 | 0.0 | 51.4 | 48.6 | 29.2 | 50.8 | 20.0^d |
| Sales and related | 21.1 | 41.9 ^d | 37.0 | 0.0 | 28.7^d | 71.3^d | 20.8 | 50.2 | 29.0 ^d |
| Office and administrative support | 24.5 | 30.3 | 45.2^d | 0.0 | 32.0 | 68.0 | 22.2 ^d | 42.2 | 35.5 |
| Construction, extraction, farming, forestry | 19.0 | 45.7 | 35.3 | 0.0 | 39.4 | 60.6 | 42.4 ^d | 45.7 | 11.9 |
| Installation, maintenance and repair | 10.4 | 49.4 | 40.2 | 0.0 | 42.6 | 57.4 | 37.0 | 42.1 | 20.9 |
| Production occupations | 29.8 | 37.1 | 33.1 | 0.0 | 42.6 | 57.4 | 31.3 | 44.4 | 24.4 |
| Transportation and material moving | 30.8 | 36.2 | 33.0 | 0.0 | 36.5 | 63.5 | 39.1 | 44.6 | 16.3 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results with the sample free of coronary heart disease/stroke to results involving the full sample (i.e., those with and without evidence of coronary heart disease/stroke).

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table C4. Prevalence^a of the Smoking Behavioral Health Risk Factor, Smoking Intensity, Other Tobacco Use and Smoking History (Pack-years) Among U.S. Workers Aged 45-64 Years Free of Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | Cigarette smoking | | | Current smoking intensity ^{d,e} Median (IQR) | Other tobacco use | | Smoking history | |
|---|-------------------------|----------------|-------------------------|--|-------------------|------------------------|-------------------------|---|
| | Ideal % | Intermediate % | Poor % | | Smoke % | Chew/Snuff % | Ever smoke % | Pack-years ^e Median (IQR) |
| Overall | 86.9 | 0.7 | 12.4 | 0.7 (0.3–1) | 5.3 | 1.3 | 42.5 | 14.0 (3–26) |
| Broad occupation categories | | | | | | | | |
| Management, professional | 91.6 | 0.6 | 7.7 | 0.5 (0.1–1) | 5.4 | 1.2 | 37.7 | 12.0 (3–24) |
| Service | 79.0^f | 0.5 | 20.4^f | 0.8 (0.5–1) | 5.5 | 0.8 | 49.8^e | 12.5 (4–20) |
| Sales, office, administrative support | 80.6 | 0.4 | 19.0 | 0.8 (0.3–1) | 3.7 | 0.4 ^f | 48.9 | 15.0 (2–30) |
| National resources, construction, maintenance | 84.0 | 1.4 | 14.7 | 1.0 (1–1) | 10.0 | 2.2 | 48.1 | 17.0 (6–35) ^f |
| Production, transportation, material moving | 77.9 | 1.0 | 21.1 | 1.0 (0.5–1) | 5.3 | 3.9 | 51.2^e | 20.0 (6–30) |
| Major occupation categories | | | | | | | | |
| Management | 91.9^f | 0.9 | 7.3 | 0.5 (0.1–1) ^f | 7.1 | 1.8 | 36.1^e | 10.3 (1.5–20)^f |
| Business and finance | 84.1 | 0.1 | 15.8 | 1.0 (0.3–1) | 10.9 | 3.3 | 48.6 | 17.0 (7.5–25) |
| Computer and math sciences | 94.5^f | 1.0 | 4.4 | 0.0 (0–1)^f | 6.3 | 1.2 | 45.5 | 12.0 (4.5–25) |
| Architecture and engineering | 97.6 | 0.1 | 2.3 | 1.0 (0.1–2.5) | 7.7 | 0.4^f | 46.8 | 14.0 (11–29) ^f |
| Life, physical, and social sciences | 97.0 | 0.3 | 2.7 | 0.5 (0.5–0.5) | 3.5 | 2.2 | 40.5 | 12.0 (10–20) |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | |
|---|-------------------|------------------------|-------------------------|--------------------------|------------------------|------------|-------------|-----------------------------|
| Community and social services | 90.2 ^f | 2.3 | 7.5 ^f | 0.5 (0.5–1) | 6.3 | 0.2 | 36.1 | 4.5 (0.5–15) |
| Legal | 90.3 | 0.0 ^f | 9.7 | 0.6 (0.3–1) | 0.0 | 0.5 | 39.9 | 5.0 (1.5–21) |
| Education, training, and library | 95.2 | 0.4^f | 4.4 | 0.8 (0.2–1) | 3.2^f | 0.7 | 29.0 | 10.5 (3.3–23) |
| Arts, entertainment, sports, media | 83.5 | 0.2 | 16.3 | 0.5 (0.1–1) | 5.7 | 0.1 | 45.2 | 12.0 (2.9–30) |
| Healthcare practitioner and technical | 90.5 ^f | 0.6 | 8.9 | 0.8 (0.5–1) | 1.7 | 0.5 | 38.1 | 7.5 (1.2–23.3) ^f |
| Healthcare support | 79.6 | 0.0 ^f | 20.4 | 0.8 (0.5–0.8) | 12.9 ^f | 0.4 | 52.2 | 10.0 (0.8–16) |
| Protective services | 71.9 | 2.1 | 26.0^f | 0.5 (0.5–1) | 3.8^f | 1.7 | 54.4 | 12.5 (6.8–28) |
| Food preparation and serving related | 90.0 | 0.0 ^f | 10.0 | 0.6 (0.2–1) | 13.3 | 2.0 | 35.8 | 11.5 (5–14) |
| Building and grounds cleaning, maintenance | 72.6 | 0.3 | 27.0^f | 1.0 (0.2–1.5) | 2.1^f | 0.1 | 54.5 | 7.0 (1.4–19) |
| Personal care and services | 83.0 | 0.2 | 16.8 | 1.0 (0.5–1) | 0.6 | 0.4 | 47.9 | 15.0 (4–20) |
| Sales and related | 82.7 ^f | 0.2^f | 17.2 ^f | 1.0 (0.4–1) | 3.5 ^f | 0.1 | 51.1 | 15.0 (3–27) |
| Office and administrative support | 79.0 | 0.7 | 20.3 | 0.5 (0.3–1) | 3.9 | 0.7 | 47.2 | 16.0 (2–30) |
| Construction, extraction, farming, forestry | 80.2 | 2.5 | 17.3 | 1.0 (1–1) | 9.6 | 2.5 | 51.8 | 25.0 (3–40) |
| Installation, maintenance and repair | 88.6 | 0.0 | 11.4 | 1.0 (0.8–1) ^f | 10.6 | 1.8 | 43.4 | 17.0 (10.5–27) |
| Production occupations | 79.6 | 1.2^f | 19.2 | 0.8 (0.5–1.5) | 2.5 ^f | 5.5 | 44.6 | 20.0 (7.5–32) |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | |
|------------------------------------|-------------------|-----|-------------|-------------|------------------------|-----|-------------|----------------------|
| Transportation and material moving | 75.5 ^f | 0.6 | 23.8 | 1.0 (0.4–1) | 9.3^f | 1.6 | 60.9 | 20.0 (5.6–30) |
|------------------------------------|-------------------|-----|-------------|-------------|------------------------|-----|-------------|----------------------|

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dSmoking intensity refers to the number of packs of cigarettes smoked per day (20 cigarettes per pack) among current smokers (i.e., poor smoking behavior).

^eMedian (interquartile range [IQR]: 25th and 75th percentiles).

^fA change in statistical significance was observed in sensitivity analyses comparing original results with the sample free of coronary heart disease/stroke to results involving the full sample (i.e., those with and without evidence of coronary heart disease/stroke).

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

APPENDIX D. SENSITIVITY ANALYSIS 2. PREVALENCE RESULTS FOR THE FULL SAMPLE, INCLUDING 716

PARTICIPANTS WITH CORONARY HEART DISEASE/STROKE

Appendix Table D1. Prevalence^a of Composite Cardiovascular Risk Factor Measures for Composite AHA LS7 (7-items), Composite Clinical Health (3-items), and Composite Behavioral Health (4-items) Among U.S. Workers Aged ≥45 Years, Including 716 With Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | Composite LS7 | | | Composite clinical health | | | Composite behavioral health | | |
|---|---------------|-------------------|------------------------|---------------------------|-------------|--------------|-----------------------------|------------|--------------|
| | Optimal % | Moderate % | Inadequate % | Optimal % | Moderate % | Inadequate % | Optimal % | Moderate % | Inadequate % |
| Overall | 29.8 | 66.6 | 3.6 | 40.4 | 57.2 | 2.4 | 19.0 | 67.6 | 13.4 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 34.7 | 63.1 | 2.2 | 43.2^d | 54.6 | 2.2 | 22.0 | 67.9 | 10.1 |
| Service | 20.4 | 72.1 ^d | 7.5^d | 25.7 | 71.0 | 3.4 | 14.9 | 67.3 | 17.8 |
| Sales, office, administrative support | 23.0 | 71.4 | 5.6 | 40.3 | 57.8 | 1.9 | 14.7 | 65.1 | 20.2 |
| National resources, construction, maintenance | 25.1 | 72.8 | 2.1 | 39.6 | 57.9 | 2.5 | 15.2 | 76.8 | 8.0 |
| Production, transportation, material moving | 28.0 | 68.0 | 4.0 | 38.4 | 57.1 | 4.6 | 16.8 | 67.2 | 16.0 |
| Major occupation categories | | | | | | | | | |
| Management | 36.6 | 60.5 ^d | 2.8 | 46.3 | 51.4 | 2.3 | 22.0 | 69.5 | 8.5 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---------------------------------------|-------------------------|-------------------|------------------------|-------------------------|-------------|-----|-------------------|-------------------------|------------------|
| Business and finance | 26.5 | 72.1 | 1.4 | 36.8 | 58.4 | 4.9 | 17.1 | 62.6 | 20.4 |
| Computer and math sciences | 23.0 | 74.2 | 2.7 | 39.4 | 58.7 | 1.9 | 5.9 | 80.9 ^d | 13.2 |
| Architecture and engineering | 43.7 ^d | 53.5 ^d | 2.8 | 46.3 | 52.7 | 1.0 | 22.6 | 67.2 | 10.2 |
| Life, physical, and social sciences | 42.8 | 56.2 | 0.9 | 31.5 | 67.0 | 1.5 | 35.9 ^d | 58.8 | 5.3 |
| Community and social services | 27.4 | 70.9 | 1.7^d | 40.6 | 58.0 | 1.3 | 18.7 | 66.3 | 15.0 |
| Legal | 28.4 | 70.8 | 0.8 ^d | 35.3 | 63.8 | 0.9 | 18.9 | 71.5 | 9.6 ^d |
| Education, training, and library | 36.1 | 62.3 | 1.6 | 42.2 | 56.2 | 1.6 | 28.4 | 63.6 | 8.1 |
| Arts, entertainment, sports, media | 38.5 | 58.5 | 3.1 | 54.3^d | 43.5 | 2.2 | 23.3 | 71.1 | 5.5 |
| Healthcare practitioner and technical | 36.6 | 60.6 | 2.9 | 44.7 | 52.8 | 2.4 | 18.1 | 72.1 | 9.8 |
| Healthcare support | 15.4^d | 78.2 | 6.4 | 36.3 | 62.3 | 1.4 | 5.9 | 66.3 | 27.8 |
| Protective services | 16.0 | 69.5 | 14.5 | 23.4 | 73.9 | 2.7 | 13.3 | 61.5 | 25.2 |
| Food preparation and serving related | 16.6 | 81.7 | 1.7 | 18.9 | 79.0 | 2.1 | 8.8 | 84.0^d | 7.2 |
| Building and grounds | 25.4 | 71.3 | 3.4 | 22.7 | 73.5 | 3.8 | 22.5 | 61.3 | 16.2 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|-------------|-------------------|------------------------|------|------|------------------------|-------------------------|------|-------------------------|
| cleaning, maintenance | | | | | | | | | |
| Personal care and services | 23.8 | 66.6 | 9.6^d | 27.0 | 68.0 | 5.1^d | 18.0 | 67.5 | 14.5 |
| Sales and related | 23.2 | 70.1 | 6.7 | 37.9 | 59.0 | 3.1 | 13.7^d | 66.9 | 19.4^d |
| Office and administrative support | 22.8 | 72.6 ^d | 4.7 | 42.3 | 56.9 | 0.9^d | 15.6 | 63.6 | 20.9 |
| Construction, extraction, farming, forestry | 21.3 | 76.2 | 2.5 | 37.3 | 61.2 | 1.6 | 14.2 | 76.0 | 9.9 |
| Installation, maintenance and repair | 30.4 | 68.2 | 1.5 | 42.9 | 53.3 | 3.8 | 16.7 | 77.9 | 5.5 |
| Production occupations | 33.9 | 61.4 | 4.7 | 43.0 | 52.6 | 4.4 | 15.3 | 67.4 | 17.3 |
| Transportation and material moving | 20.8 | 76.0 | 3.2 | 32.8 | 62.4 | 4.8 ^d | 18.7 | 66.9 | 14.4 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results with the sample free of coronary heart disease/stroke to results involving the full sample (i.e., those with and without evidence of coronary heart disease/stroke).

LS7, American Heart Association’s Life’s Simple 7 framework

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table D2. Prevalence^a of the Clinical Health Risk Factors Among U.S. Workers Aged ≥45 Years, Including 716 With Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | Blood glucose | | | Total cholesterol | | | Blood pressure | | |
|---|-------------------------|-------------------|------------------|-------------------|-------------------|------------|----------------|-------------------|-------------|
| | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % |
| Overall | 76.1 | 16.5 | 7.4 | 38.3 | 50.2 | 11.5 | 32.0 | 53.7 | 14.3 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 77.8 | 14.8 | 7.4 | 39.1 | 50.5 | 10.4 | 34.4 | 54.5 | 11.1 |
| Service | 71.3 | 18.0 | 10.6 | 29.6 | 54.9 | 15.5 | 19.9 | 60.7 | 19.4 |
| Sales, office, administrative support | 77.9 | 16.5 | 5.6 | 36.4 | 50.3 | 13.2 | 31.3 | 50.0 ^d | 18.7 |
| National resources, construction, maintenance | 67.3 | 23.9 | 8.8 | 44.0 | 46.1 | 10.0 | 38.0 | 48.0 | 14.0 |
| Production, transportation, material moving | 68.4 | 24.6 | 7.0 ^d | 46.5 | 42.8 | 10.7 | 26.6 | 54.4 | 19.0 |
| Major occupation categories | | | | | | | | | |
| Management | 80.5^d | 14.1 | 5.5 | 38.8 | 53.9 | 7.3 | 35.0 | 53.1 | 11.9 |
| Business and finance | 68.8 | 18.0 | 13.2 | 40.8 | 48.1 | 11.1 | 25.0 | 61.4 | 13.6 |
| Computer and math sciences | 76.5 | 19.5 | 4.0 | 39.6 | 46.8 | 13.6 | 27.7 | 52.9 | 19.5 |
| Architecture and engineering | 74.3 | 18.7 | 7.0 | 40.7 | 55.8 | 3.5 | 31.9 | 57.5 | 10.6 |
| Life, physical, and social sciences | 87.1^d | 9.1 | 3.8 | 34.4 | 53.2 | 12.4 | 21.7 | 72.2 | 6.1 |
| Community and social services | 73.9 | 15.2 | 10.9 | 36.1 | 50.8 | 13.1 | 40.0 | 47.3 | 12.7 |
| Legal | 62.6 | 24.3 | 13.1 | 43.6 | 36.2 ^d | 20.2 | 25.1 | 68.1 | 6.8 |
| Education, training, and library | 82.9 | 12.1 | 5.0 | 37.3 | 50.7 | 12.0 | 33.1 | 56.0 | 10.9 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|------|-------------|-------------------------|-------------------------|-------------|------------|-------------------------|-------------------------|-------------------|
| Arts, entertainment, sports, media | 77.1 | 13.6 | 9.3 | 49.6^d | 40.6 | 9.8 | 48.3^d | 40.8^d | 10.9 |
| Healthcare practitioner and technical | 77.8 | 13.5 | 8.7 | 35.8 | 54.2 | 10.1 | 42.5 | 49.7 | 7.8 ^d |
| Healthcare support | 73.9 | 17.7 | 8.4 | 30.4 | 47.4 | 22.2 | 22.1 | 68.5^d | 9.4 |
| Protective services | 62.9 | 26.5 | 10.6 | 23.2 | 74.9 | 2.0 | 19.5 | 49.6 | 30.9 ^d |
| Food preparation and serving related | 79.9 | 13.4 | 6.6 | 27.0 | 53.7 | 19.3 | 17.7 | 72.1^d | 10.2 |
| Building and grounds cleaning, maintenance | 73.4 | 18.5 | 8.1 | 31.2 | 54.8 | 13.9 | 13.2 | 62.2 | 24.6 |
| Personal care and services | 69.4 | 15.1 | 15.5^d | 33.1 | 47.7 | 19.2 | 24.9 | 56.6 | 18.5 |
| Sales and related | 73.9 | 20.2 | 5.9 | 29.0 | 59.7 | 11.3 | 32.9 | 48.3 ^d | 18.8 ^d |
| Office and administrative support | 81.3 | 13.3 | 5.4 | 42.7 | 42.5 | 14.8 | 30.0 | 51.3 | 18.7 |
| Construction, extraction, farming, forestry | 67.5 | 23.4 | 9.1 | 39.7 | 46.6 | 13.8 | 37.8^d | 48.9 | 13.3 |
| Installation, maintenance and repair | 67.0 | 24.7 | 8.3 | 50.0 | 45.4 | 4.6 | 38.2 | 46.8 | 15.0 |
| Production occupations | 67.4 | 26.6 | 6.0 | 47.5 | 41.3 | 11.3 | 31.5 | 53.7 | 14.8 |
| Transportation and material moving | 69.6 | 22.1 | 8.3 | 45.3 | 44.6 | 10.1 | 20.6 | 55.2 | 24.2 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results with the sample free of coronary heart disease/stroke to results involving the full sample (i.e., those with and without evidence of coronary heart disease/stroke).

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table D3. Prevalence^a of Three of the Behavioral Health Risk Factors Among U.S. Workers Aged ≥45 Years, Including 716 With Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | BMI | | | Diet quality | | | Physical activity | | |
|---|-------------------------|-------------------|--------|------------------------|-------------------|-------------------|-------------------|-------------------------|-------------------|
| | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % |
| Overall | 29.3 | 37.3 | 33.4 | 0.0 | 38.2 | 61.8 | 31.2 | 41.2 | 27.5 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 32.0 | 36.1 | 31.9 | 0.0^d | 40.3 | 59.7 | 33.1 ^d | 41.7^d | 25.2 |
| Service | 19.4 | 40.4 ^d | 40.2 | 0.0 | 40.6 | 59.4 | 31.8 | 41.0 | 27.3 |
| Sales, office, administrative support | 29.5 | 37.7 | 32.8 | 0.0 | 31.9 | 68.1 | 22.6 | 41.0^d | 36.4 |
| National resources, construction, maintenance | 18.0 | 44.7 | 37.3 | 0.0 | 37.5 | 62.5 | 40.6 | 42.0 | 17.4 |
| Production, transportation, material moving | 26.5 | 37.4 | 36.0 | 0.0 | 39.4 | 60.6 | 37.9 | 37.7 | 24.5 |
| Major occupation categories | | | | | | | | | |
| Management | 29.7 | 41.1 | 29.2 | 0.0 | 44.1 | 55.9 | 37.6 ^d | 36.8 ^d | 25.6 |
| Business and finance | 31.0 | 33.4 | 35.6 | 0.0 | 30.4 ^d | 69.6 ^d | 32.5 | 37.4 | 30.1 |
| Computer and math sciences | 15.8 | 45.6 | 38.5 | 0.0 | 31.5 | 68.5 | 19.3 | 55.5 | 25.2 |
| Architecture and engineering | 34.4 | 35.8 | 29.8 | 0.0 | 31.3 | 68.7 | 37.7 | 49.6 | 12.7 ^d |
| Life, physical, and social sciences | 27.6 | 52.0 | 20.4 | 0.0 | 53.3 | 46.7 | 38.3 | 39.5 | 22.2 |
| Community and social services | 24.3 | 37.3 | 38.4 | 0.0 | 43.8 | 56.2 | 28.7 | 34.4 | 36.9 |
| Legal | 31.7 | 24.2 ^d | 44.2 | 0.0 | 54.5 | 45.5 | 19.8 | 37.4 | 42.8 |
| Education, training, and library | 37.2^d | 33.8 | 29.1 | 0.0 | 40.3 | 59.7 | 34.4 | 43.0^d | 22.7 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|-------------------|-------------------|------|-----|-------------------------|-------------------------|-------------|-------------------------|-------------------|
| Arts, entertainment, sports, media | 40.8 ^d | 30.5 | 28.7 | 0.0 | 35.9 | 64.1 | 36.2 | 48.2^d | 15.6 |
| Healthcare practitioner and technical | 33.7 | 31.0 | 35.2 | 0.0 | 36.6 | 63.4 | 28.2 | 48.9 | 22.8 |
| Healthcare support | 14.7 | 30.8 | 54.6 | 0.0 | 25.3 | 74.7 | 21.9 | 42.5 | 35.5 |
| Protective services | 9.9 | 55.2 ^d | 34.9 | 0.0 | 23.4 | 76.6 | 21.4 | 58.0 | 20.6 |
| Food preparation and serving related | 22.6 | 25.1 | 52.3 | 0.0 | 31.4 ^d | 68.6 ^d | 35.1 | 48.1 | 16.8 |
| Building and grounds cleaning, maintenance | 17.6 | 47.4 | 35.0 | 0.0 | 60.0^d | 40.0^d | 41.4 | 27.9 ^d | 30.7 |
| Personal care and services | 27.3 | 38.8 | 33.9 | 0.0 | 48.9 | 51.1 | 34.4 | 36.1 | 29.5 |
| Sales and related | 27.9 | 45.2 | 26.8 | 0.0 | 32.3 | 67.7 | 23.9 | 39.5^d | 36.6 |
| Office and administrative support | 30.8 | 31.4 | 37.8 | 0.0 | 31.5 | 68.5 | 21.5 | 42.2 | 36.2 ^d |
| Construction, extraction, farming, forestry | 23.0 | 44.6 | 32.4 | 0.0 | 36.3 | 63.7 | 46.9 | 38.0 | 15.1 |
| Installation, maintenance and repair | 11.0 | 44.9 | 44.1 | 0.0 | 39.1 | 60.9 | 31.7 | 47.7 | 20.6 |
| Production occupations | 25.4 | 36.6 | 38.0 | 0.0 | 42.6 | 57.4 | 34.6 | 37.3 | 28.1 |
| Transportation and material moving | 27.9 | 38.4 | 33.7 | 0.0 | 35.6 | 64.4 | 41.8 | 38.1 | 20.1 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results with the sample free of coronary heart disease/stroke to results involving the full sample (i.e., those with and without evidence of coronary heart disease/stroke).

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table D4. Prevalence^a of the Smoking Behavioral Health Risk Factor, Smoking Intensity, Other Tobacco Use and Smoking History (Pack-years) Among U.S. Workers Aged ≥45 Years, Including 716 With Coronary Heart Disease/Stroke

| Occupation group ^{b,c} | Cigarette smoking | | | Current smoking intensity ^{d,e} Median (IQR) | Other tobacco use | | Smoking history | |
|---|-------------------------|------------------------|-------------|--|-------------------|------------------|-------------------------|---|
| | Ideal | Intermediate | Poor | | Smoke | Chew/Snuff | Ever smoke | Pack-years ^e Median (IQR) |
| Overall | 88.3 | 1.0 | 10.7 | 0.8 (0.3–1) | 4.5 | 1.5 | 45.3 | 15 (4.3–30) |
| Broad occupation categories | | | | | | | | |
| Management, professional | 92.7 | 1.1 | 6.2 | 0.5 (0.1–1) | 4.8 | 1.4 | 40.3 | 12 (3–24) |
| Service | 84.2 | 0.5 | 15.3 | 0.8 (0.5–1)^f | 4.6 | 1.9 | 52.2^f | 15 (5–31) |
| Sales, office, administrative support | 81.3 | 1.0 | 17.7 | 0.8 (0.3–1) | 3.0 | 0.8 ^f | 51.6 | 18 (4.3–39) |
| Construction, maintenance, farming | 86.8 | 1.2 | 11.9 | 1.0 (0.8–1) | 7.9 | 2.3 | 51.1 | 16 (6.3–32) |
| Production, transportation, material moving | 80.9 | 1.2 | 17.9 | 1.0 (0.5–1)^f | 5.1 | 3.6 | 52.8 | 20 (6.8–45) |
| Major occupation categories | | | | | | | | |
| Management | 92.2^f | 1.3^f | 6.5 | 0.5 (0.1–1) ^f | 7.2 | 2.4 | 40.8 | 10.5 (1.5–24)^f |
| Business and finance | 90.2 | 0.0 ^f | 9.8 | 1.0 (0.3–1) | 7.3 | 2.0 | 44.9 | 19.5 (8–25) |
| Computer and math sciences | 92.5 | 3.5 | 4.0 | 0.0 (0–0.8) | 7.6 | 0.9 | 45.1 | 15.7 (4.5–25) |
| Architecture and engineering | 97.4 | 0.0 ^f | 2.5 | 1.0 (0.5–2.5) | 6.7 | 1.2 | 42.2 | 15 (11–25) |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | |
|--|-------------------|------------------|-------------------------|--------------------|------------------------|------------------------|-------------|-------------------|
| Life, physical, and social sciences | 97.1 | 0.2 | 2.7 | 0.5 (0.3–0.5) | 2.2 | 1.5 | 43.2 | 10 (4.5–16) |
| Community and social services | 94.1 | 1.4 | 4.5 | 0.5 (0.5–1) | 4.7 | 0.3 | 42.7 | 7 (1.5–15) |
| Legal | 91.0 | 3.8 ^f | 5.1 | 0.5 (0.3–1) | 1.1 ^f | 0.2^f | 43.9 | 8 (3–22.5) |
| Education, training, and library | 95.7 ^f | 0.9 | 3.4 | 0.6 (0.2–1) | 2.5 | 1.7 | 32.8 | 11.7 (3–23) |
| Arts, entertainment, sports, media | 84.7 | 0.7 | 14.6 | 0.5 (0.1–1) | 5.5 | 0.1 | 48.3 | 16 (5–30) |
| Healthcare practitioner and technical | 92.2 ^f | 0.5 | 7.3^f | 0.8 (0.5–1) | 1.9 | 0.4 | 37.6 | 9 (1.2–23) |
| Healthcare support | 79.6 | 0.0 ^f | 20.4 | 0.8 (0.5–0.8) | 9.9 | 0.4 | 55.9 | 13 (1.2–16) |
| Protective services | 79.3 | 1.5 | 19.3^f | 0.5 (0.2–1) | 4.7 | 1.5 | 52.8 | 12.5 (7–26) |
| Food preparation and serving related | 93.9 | 0.1 ^f | 6.0 | 0.5 (0.1–1) | 7.1^f | 2.4^f | 43.5 | 15 (10–32) |
| Building and grounds cleaning, maintenance | 81.8 | 0.1 ^f | 18.1 | 0.5 (0.3–1.5) | 3.5 | 5.3 ^f | 55.1 | 12.9 (4.7–30) |
| Personal care and services | 86.4 | 0.6 | 13.0 | 1.0 (0.5–1) | 1.6 | 0.4 | 52.2 | 19.5 (6–33.7) |
| Sales and related | 81.8 | 0.6 | 17.6 | 0.8 (0.1–1) | 2.2 | 0.3 | 56.5 | 18 (5–42) |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | |
|---|-------------|------------------|-------------|--------------------|------------------|-----|-------------------------|--------------------|
| Office and administrative support | 80.8 | 1.3 | 17.9 | 0.5 (0.3–1) | 3.6 | 1.2 | 47.6 | 18 (4–37) |
| Construction, extraction, farming, forestry | 84.5 | 1.9 | 13.5 | 1.0 (1–1) | 7.2 | 2.6 | 59.1^f | 13.5 (6–36) |
| Installation, maintenance and repair | 90.1 | 0.2 ^f | 9.7 | 1.0 (0.8–1) | 9.0 | 1.9 | 39.9 | 17 (8.5–28) |
| Production occupations | 81.3 | 1.4 | 17.3 | 1.0 (0.5–1.5) | 3.1 ^f | 4.8 | 46.5 | 20 (7.5–45) |
| Transportation and material moving | 80.5 | 0.9 | 18.6 | 1.0 (0.5–1) | 7.6 | 2.1 | 60.5 | 20 (6–45) |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, and region.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dSmoking intensity refers to the number of packs of cigarettes smoked per day (20 per pack) among current (i.e., “poor”) smokers.

^eMedian (interquartile range [IQR]: 25th and 75th percentiles).

^fA change in statistical significance was observed in sensitivity analyses comparing original results with the sample free of coronary heart disease/stroke to results involving the full sample (i.e., those with and without evidence of coronary heart disease/stroke).

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

APPENDIX E. SENSITIVITY ANALYSIS 3. PREVALENCE RESULTS FOR THOSE FREE OF CORONARY HEART

DISEASE/STROKE WITH INCOME AND EDUCATION ADJUSTMENT

Appendix Table E1. Prevalence^a of Composite Cardiovascular Risk Factor Measures for Composite AHA LS7 (7-Items), Composite Clinical Health (3-Items), and Composite Behavioral Health (4-Items) Among U.S. Workers Aged ≥45 Years Free of Coronary Heart Disease/Stroke With Additional Adjustment for SES

| Occupation group ^{b,c} | Composite LS7 | | | Composite clinical health | | | Composite behavioral health | | |
|---|-------------------|-------------------|--------------|---------------------------|-------------|--------------|-----------------------------|------------|--------------|
| | Optimal % | Moderate % | Inadequate % | Optimal % | Moderate % | Inadequate % | Optimal % | Moderate % | Inadequate % |
| Overall | 31.1 | 65.5 | 3.4 | 42.0 | 55.0 | 2.0 | 19.2 | 68.1 | 12.7 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 36.3 | 61.5 ^d | 2.1 | 45.7 | 52.7 | 1.7 | 22.4 | 68.3 | 9.2 |
| Service | 19.9 | 74.4 ^d | 5.8 | 28.5 | 68.2 | 3.3 | 14.0 | 69.1 | 17.0 |
| Sales, office, administrative support | 23.1 | 70.7 ^d | 6.2 | 42.4 | 55.4 | 2.2 | 14.0 | 66.1 | 19.9 |
| National resources, construction, maintenance | 27.2 | 71.3 | 1.5 | 42.0 | 55.9 | 2.1 | 15.9 | 76.4 | 7.7 |
| Production, transportation, material moving | 30.3 | 65.7 | 4.0 | 41.9 | 55.6 | 2.5 | 17.7 | 66.6 | 15.7 |
| Major occupation categories | | | | | | | | | |
| Management | 39.4 ^d | 58.0 ^d | 2.6 | 46.3 | 51.8 | 1.9 | 25.1 | 66.9 | 8.0 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---------------------------------------|-------------------|-------------------|-------------|-------------------|-------------------|-----|-------------------------|-------------|-------------------|
| Business and finance | 26.4 | 71.6 | 2.0 | 46.1 | 51.8 | 2.1 | 13.0^d | 67.8 | 19.2 |
| Computer and math sciences | 23.9 | 74.1 | 1.9 | 41.2 | 57.5 | 1.3 | 4.7 | 82.7 | 12.7 |
| Architecture and engineering | 47.4 ^d | 50.1 ^d | 2.5 | 55.1 | 43.7 | 1.1 | 23.1 | 70.5 | 6.4 |
| Life, physical, and social sciences | 45.6 | 53.3 | 1.1 | 35.9 | 62.4 | 1.7 | 37.8 ^d | 55.7 | 6.5 |
| Community and social services | 26.6 | 71.7 | 1.7 | 43.3 | 55.3 | 1.4 | 18.3 | 66.6 | 15.0 |
| Legal | 33.2 | 66.6 | 0.1 | 39.9 | 59.8 | 0.3 | 21.7 | 74.6 | 3.7 ^d |
| Education, training, and library | 37.0 | 61.5 | 1.5 | 43.8 | 55.0 | 1.1 | 26.5 | 66.0 | 7.5 ^d |
| Arts, entertainment, sports, media | 40.4 | 56.4 | 3.3 | 56.6 | 41.1 | 2.3 | 25.8 | 68.1 | 6.1 |
| Healthcare practitioner and technical | 36.2 | 61.2 | 2.6 | 45.0 | 52.6 | 2.4 | 17.2 | 72.9 | 9.9 ^d |
| Healthcare support | 15.1 | 79.8 | 5.1 | 37.0 | 61.3 | 1.6 | 4.3 | 67.3 | 28.4 |
| Protective services | 16.3 | 70.3 | 13.4 | 22.0 | 75.6 | 2.4 | 15.4 | 62.7 | 21.9 ^d |
| Food preparation and serving related | 19.8 | 78.2 | 2.0 | 21.4 ^d | 76.1 ^d | 2.5 | 10.6 | 80.5 | 8.9 |
| Building and grounds | 27.5 | 69.0 | 3.5 | 26.6 | 69.4 | 3.9 | 23.3 | 60.3 | 16.4 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|-------------------|-------------------|------------|------|------|------------|------|------|-------------|
| cleaning, maintenance | | | | | | | | | |
| Personal care and services | 19.1 | 76.5 | 4.5 | 33.2 | 62.1 | 4.6 | 12.7 | 75.6 | 11.7 |
| Sales and related | 23.6 ^d | 67.6 | 8.8 | 40.1 | 56.4 | 3.5 | 14.7 | 66.9 | 18.4 |
| Office and administrative support | 22.6 ^d | 73.4 ^d | 4.0 | 44.4 | 54.5 | 1.1 | 13.4 | 65.3 | 21.2 |
| Construction, extraction, farming, forestry | 23.8 | 74.6 | 1.6 | 40.3 | 58.0 | 1.7 | 15.3 | 75.7 | 8.9 |
| Installation, maintenance and repair | 32.1 | 66.7 | 1.2 | 44.6 | 52.7 | 2.7 | 16.8 | 77.3 | 5.9 |
| Production occupations | 36.1 | 59.7 | 4.2 | 46.0 | 50.5 | 3.6 | 16.1 | 68.0 | 16.0 |
| Transportation and material moving | 22.5 | 73.8 | 3.7 | 36.5 | 62.5 | 1.1 | 20.0 | 64.8 | 15.3 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, region, income, and education.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results to results of the same sample but with additional adjustment for income and education.

LS7, American Heart Association’s Life’s Simple 7 framework

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table E2. Prevalence^a of the Clinical Health Risk Factors Among U.S. Workers Aged ≥45 Years Free of Coronary Heart Disease/Stroke With Additional Adjustment for SES

| Occupation group ^{b,c} | Blood glucose | | | Total cholesterol | | | Blood pressure | | |
|---|-------------------------|-------------------|------------------|-------------------|-------------------|------------|----------------|-------------------------|-------------|
| | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % |
| Overall | 78.1 | 15.7 | 6.2 | 40.6 | 47.9 | 11.5 | 33.4 | 52.9 | 13.8 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 79.6 | 14.2 | 6.1 | 41.2 | 48.3 | 10.5 | 35.6 | 54.2^d | 10.2 |
| Service | 72.6 | 18.7 | 8.8 | 32.4 | 50.8 | 16.8 | 21.9 | 58.1 | 20.1 |
| Sales, office, administrative support | 80.5 | 14.4 | 5.1 | 38.2 | 49.2 | 12.6 | 32.9 | 47.9 | 19.2 |
| National resources, construction, maintenance | 68.8 | 22.7 | 8.5 | 47.2 | 43.3 | 9.5 | 38.0 | 48.1 | 14.0 |
| Production, transportation, material moving | 70.8^d | 24.2 | 5.0 ^d | 50.0 | 39.0 | 11.0 | 28.4 | 54.1 | 17.5 |
| Major occupation categories | | | | | | | | | |
| Management | 81.3 | 14.1 | 4.6 | 39.5 | 53.7 | 6.8 | 34.8 | 54.6 | 10.6 |
| Business and finance | 71.9 | 18.4 | 9.7 | 47.7 | 40.0 | 12.3 | 30.6 | 57.7 | 11.7 |
| Computer and math sciences | 79.5 | 17.0 | 3.4 | 41.7 | 46.9 | 11.4 | 29.0 | 51.9 | 19.1 |
| Architecture and engineering | 78.8 | 14.3 | 7.0 | 48.9 | 47.0 | 4.2 | 36.4 | 54.2 | 9.5 |
| Life, physical, and social sciences | 85.7 | 9.9 | 4.4 | 39.7 | 48.7 | 11.6 | 23.3 | 69.4 | 7.3 |
| Community and social services | 77.3 | 14.1 | 8.6 | 38.1 | 48.8 | 13.0 | 38.8 | 48.4 | 12.7 |
| Legal | 61.5 | 26.2 | 12.3 | 49.6 | 28.1 ^c | 22.3 | 27.8 | 65.6 | 6.5 |
| Education, training, and library | 84.4 | 11.2 | 4.4 | 38.4 | 49.2 | 12.3 | 34.3 | 56.0 | 9.7 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|------|-------------|------|-------------------------|-------------|------------|-------------|-------------|------------------|
| Arts, entertainment, sports, media | 80.5 | 13.7 | 5.8 | 50.0 | 39.4 | 10.6 | 47.2 | 41.1 | 11.7 |
| Healthcare practitioner and technical | 79.3 | 12.9 | 7.8 | 36.4 | 52.6 | 11.0 | 42.8 | 50.6 | 6.6 ^c |
| Healthcare support | 75.2 | 17.7 | 7.1 | 30.6 | 46.8 | 22.5 | 23.8 | 67.6 | 8.6 |
| Protective services | 63.7 | 28.5 | 7.8 | 23.3 | 74.7 | 2.0 | 18.7 | 46.0 | 35.3 |
| Food preparation and serving related | 77.0 | 14.3 | 8.6 | 30.2 | 46.4 | 23.5 | 21.6 | 68.5 | 9.8 |
| Building and grounds cleaning, maintenance | 73.4 | 18.0 | 8.6 | 36.9 | 48.1 | 15.0 | 15.0 | 63.7 | 21.3 |
| Personal care and services | 74.4 | 15.1 | 10.5 | 37.3 | 40.9 | 21.8 | 28.4 | 51.7 | 20.0 |
| Sales and related | 79.2 | 15.6 | 5.2 | 30.9 | 58.6 | 10.6 | 34.8 | 42.1 | 23.2 |
| Office and administrative support | 81.7 | 13.4 | 4.9 | 44.4^d | 41.2 | 14.4 | 31.2 | 52.9 | 15.9 |
| Construction, extraction, farming, forestry | 69.7 | 21.4 | 8.9 | 44.1 | 42.5 | 13.4 | 36.9 | 49.7 | 13.4 |
| Installation, maintenance and repair | 67.5 | 24.7 | 7.9 | 51.8 | 44.5 | 3.7 | 39.5 | 45.7 | 14.8 |
| Production occupations | 69.7 | 25.6 | 4.7 | 50.0 | 39.5 | 10.5 | 33.0 | 54.0 | 13.0 |
| Transportation and material moving | 72.4 | 22.2 | 5.4 | 49.9 | 38.4 | 11.7 | 22.2 | 54.3 | 23.6 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, region, income, and education.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results to results of the same sample but with additional adjustment for income and education.

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table E3. Prevalence^a of Three of the Behavioral Health Risk Factors Among U.S. Workers Aged ≥45 Years Free of Coronary Heart Disease/Stroke With Additional Adjustment for SES

| Occupation group ^{b,c} | BMI | | | Diet quality | | | Physical activity | | |
|---|-------------------------|-------------------|--------|------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|
| | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % | Ideal % | Intermediate % | Poor % |
| Overall | 29.9 | 37.2 | 32.9 | 0.0 | 38.3 | 61.7 | 31.5 | 41.2 | 27.3 |
| Broad occupation categories | | | | | | | | | |
| Management, professional | 33.1 | 35.6 | 31.3 | 0.0 | 40.8 ^d | 59.2 ^d | 33.9 | 41.4 | 24.6 ^d |
| Service | 20.9 | 42.0 | 37.1 | 0.0^d | 36.4 | 63.6 | 31.3 | 41.8 | 27.0 |
| Sales, office, administrative support | 28.0 | 38.6 | 33.3 | 0.0^d | 32.5 ^d | 67.5 ^d | 21.0 | 41.4 | 37.6 |
| National resources, construction, maintenance | 19.4 | 43.9 | 36.7 | 0.0 | 36.1 | 63.9 | 41.9 | 41.7 | 16.3 |
| Production, transportation, material moving | 27.3 | 36.2 | 36.6 | 0.0 | 40.9 | 59.1 | 37.8 | 38.2 | 24.1 |
| Major occupation categories | | | | | | | | | |
| Management | 32.7 | 40.1 | 27.2 | 0.0 | 46.0 | 54.0 | 40.1 | 35.7 | 24.2 |
| Business and finance | 31.3 | 29.7 | 39.0 | 0.0 | 28.1 | 71.9 | 31.3 | 39.4 | 29.2 |
| Computer and math sciences | 16.3 | 47.7 | 36.0 | 0.0 | 31.5 | 68.5 | 19.4 | 54.9 | 25.6 |
| Architecture and engineering | 35.8 | 40.6 | 23.5 | 0.0^d | 32.5 | 67.5 | 41.2 | 50.3 | 8.5 |
| Life, physical, and social sciences | 28.4 | 50.0 | 21.6 | 0.0 | 47.4 | 52.6 | 40.1 | 36.8 | 23.1 |
| Community and social services | 24.2 | 34.6 | 41.3 | 0.0 | 42.4 | 57.6 | 27.4 | 31.9 | 40.7^d |
| Legal | 36.9^d | 19.6 ^d | 43.6 | 0.0 | 58.3 | 41.7 | 20.2 | 39.7 | 40.1 |
| Education, training, and library | 36.1^d | 35.5 | 28.4 | 0.0^d | 39.5 | 60.5 | 34.2 | 43.3 | 22.5 |
| Arts, entertainment, sports, media | 43.2 | 26.6 | 30.2 | 0.0 | 37.8 | 62.2 | 37.2 | 48.1 | 14.7 |
| Healthcare practitioner and technical | 34.0 | 30.7 | 35.3 | 0.0 | 37.2 | 62.8 | 27.4 | 49.7 ^d | 22.9 ^d |
| Healthcare support | 14.3 ^d | 32.2 | 53.5 | 0.0 | 25.2 | 74.8 | 22.1 | 39.6 | 38.3 |
| Protective services | 9.6 | 61.3 | 29.1 | 0.0 | 26.0 | 74.0 | 22.5 | 57.6 | 19.9 |
| Food preparation and serving related | 26.0 | 19.1 | 54.9 | 0.0^d | 20.6 | 79.4 | 33.0 | 49.2 | 17.8 |
| Building and grounds cleaning, maintenance | 17.6 | 52.6 | 29.7 | 0.0 | 56.9^d | 43.1^d | 45.2 | 23.4 | 31.4 |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | | |
|---|------|-------------|------|------------------------|-------------------|-------------------|-------------|------|-------------------|
| Personal care and services | 32.4 | 37.0 | 30.6 | 0.0 | 41.6 | 58.4 | 30.8 | 42.6 | 26.6 |
| Sales and related | 26.7 | 47.2 | 26.1 | 0.0^d | 32.9 | 67.1 | 24.0 | 38.3 | 37.7 |
| Office and administrative support | 29.1 | 31.3 | 39.6 | 0.0^d | 32.1 ^d | 67.9 ^d | 18.4 | 44.0 | 37.6 ^d |
| Construction, extraction, farming, forestry | 25.9 | 42.5 | 31.6 | 0.0 | 35.1 | 64.9 | 48.3 | 37.7 | 14.0 |
| Installation, maintenance and repair | 10.0 | 46.0 | 44.0 | 0.0 | 37.6 | 62.4 | 32.8 | 47.5 | 19.7 |
| Production occupations | 24.8 | 35.7 | 39.5 | 0.0 | 43.6 | 56.4 | 36.3 | 36.6 | 27.1 |
| Transportation and material moving | 30.6 | 36.8 | 32.6 | 0.0 | 37.4 | 62.6 | 39.7 | 40.3 | 20.0 |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, region, income, and education.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dA change in statistical significance was observed in sensitivity analyses comparing original results to results of the same sample but with additional adjustment for income and education.

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Table E4. Prevalence^a of the Smoking Behavioral Health Risk Factor, Smoking Intensity, Other Tobacco Use, and Smoking History (Pack-years) Among U.S. Workers Aged ≥45 Years Free of Coronary Heart Disease/Stroke With Additional Adjustment for SES

| Occupation group ^{b,c} | Cigarette smoking | | | Current smoking intensity ^{d,e} Median (IQR) | Other tobacco use | | Smoking history | |
|---|-------------------|------------------------|-------------------|--|-------------------|------------------------|-------------------|---|
| | Ideal | Intermediate | Poor | | Smoke | Chew/Snuff | Ever smoke | Pack-years ^e Median (IQR) |
| Overall | 88.3 | 1.1 | 10.6 | 0.8 (0.3–1) | 4.6 | 1.5 | 44.6 | 14 (28–4) |
| Broad occupation categories | | | | | | | | |
| Management, professional | 92.4 | 1.3 | 6.4 | 0.5 (0.1–1) | 5.0 | 1.7^f | 40.3 | 11.7 (3–23) ^f |
| Service | 84.3 | 0.5 | 15.2 | 0.8 (0.4–1) | 4.4 | 0.6 | 48.5 | 12 (4–20) |
| Sales, office, administrative support | 82.0 | 0.8 | 17.1 | 0.8 (0.4–1) | 2.7 | 0.3 | 50.8 ^f | 17.5 (4–37) |
| Construction, maintenance, farming | 87.0 | 1.1 | 11.9 | 1.0 (0.8–1) | 7.9 | 1.8 | 51.3 | 16 (6–34) ^f |
| Production, transportation, material moving | 80.6 ^f | 1.0 | 18.4 ^f | 1.0 (0.5–1) | 5.2 | 3.8 | 50.7 | 20 (6–34) |
| Major occupation categories | | | | | | | | |
| Management | 91.3 | 2.4 | 6.3 ^f | 0.4 (0.1–1) ^f | 7.0 | 3.3 | 39.1 | 10 (2–23) |
| Business and finance | 88.4 | 0.0 | 11.5 | 1.0 (0.4–1) | 9.2 | 2.3 | 51.4 | 15 (8–23) |
| Computer and math sciences | 93.4 | 2.2 | 4.4 ^f | 0.0 (0–0.8) | 5.7 | 1.0 | 46.2 | 12 (4–25) |
| Architecture and engineering | 97.7 | 0.1 | 2.2 | 1.0 (0.4–2.5) | 8.6 | 1.6 | 40.7 | 15 (11–32) |
| Life, physical, and social sciences | 97.8 | 0.2^f | 2.0 | 0.5 (0.5–0.5) | 2.6 | 1.6 | 45.3 | 10 (5–12) |
| Community and social services | 93.9 ^f | 1.4 | 4.7 ^f | 0.5 (0.5–1) | 5.2 | 0.2 ^f | 45.9 | 8 (3–16) ^f |
| Legal | 95.2 | 0.0 ^f | 4.8 | 0.6 (0.3–1) | 0.0 | 0.2 | 40.3 | 8 (2–33) |
| Education, training, and library | 95.4 | 1.1 | 3.5 | 0.5 (0.2–1) | 2.6 | 1.7 | 33.3 | 11.7 (3–23) |
| Arts, entertainment, sports, media | 83.7 | 0.9 | 15.4 | 0.5 (0.1–1) | 6.1 | 0.1 | 48.6 | 14 (5–30) |

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

| | | | | | | | | |
|---|-------------------------|------------------|-------------------|--------------------------|------------------|------------|-------------------|-------------------------|
| Healthcare practitioner and technical | 92.0 ^f | 0.6 | 7.4 | 0.8 (0.5–1) | 2.0 | 0.4 | 36.7 | 7.7 (1–23) ^f |
| Healthcare support | 81.2 | 0.0 | 18.8 | 0.8 (0.5–0.8) | 11.2 | 0.3 | 53.0 | 10 (1–15) |
| Protective services | 80.5 | 1.4 | 18.1 | 0.5 (0.5–1) | 2.8 | 1.2 | 50.1 | 12.5 (7–26) |
| Food preparation and serving related | 92.4^f | 0.0 | 7.6 | 0.5 (0.1–1) | 8.1 | 1.2 | 38.6 | 11.5 (1–23) |
| Building and grounds cleaning, maintenance | 80.5 | 0.2 ^f | 19.3 | 0.5 (0.1–1.5) | 4.0 | 0.4 | 54.6 | 10 (5–30) |
| Personal care and services | 87.5 | 0.7 | 11.7 | 1.0 (0.5–1) ^f | 0.4 | 0.3 | 45.0 | 15 (4–28) |
| Sales and related | 82.0 ^f | 0.7 | 17.3 ^f | 0.8 (0.5–1) | 2.2 | 0.1 | 54.4 ^f | 18 (4–39) |
| Office and administrative support | 82.1 ^f | 0.9 | 17.0 ^f | 0.5 (0.3–1) | 3.1 | 0.5 | 47.6 | 15 (3–36) |
| Construction, extraction, farming, forestry | 84.7 | 1.9 | 13.4 | 1.0 (1–1) | 7.0 | 1.8 | 59.0 | 11.5 (6–36) |
| Installation, maintenance and repair | 90.2 | 0.0 | 9.8 | 1.0 (0.8–1) ^f | 9.3 | 1.9 | 40.0 | 17 (11–28) ^f |
| Production occupations | 83.1 | 1.0 | 15.9 | 0.8 (0.5–1.5) | 2.6 ^f | 5.1 | 43.1 | 18 (8–40) |
| Transportation and material moving | 77.3 ^f | 0.9 | 21.8 | 1.0 (0.5–1) | 8.6 | 2.0 | 60.9 ^f | 20 (6–30) |

^aPrevalence weighted by sex, race, age, and region.

^bEach occupation group was compared with all other groups combined. Boldface indicates statistically significant ($p < 0.05$) group differences, adjusted for sex, race, age, region, income, and education.

^cThe broad occupation category “natural resources, construction, and maintenance” includes three major occupation groups: (1) farming, fishing, and forestry, (2) construction and extraction (i.e., mining), (3) installation, maintenance and repair.

^dSmoking intensity refers to the number of packs of cigarettes smoked per day (20 cigarettes per pack) among current smokers (i.e., poor smoking behavior).

^eMedian (interquartile range [IQR]: 25th and 75th percentiles).

^fA change in statistical significance was observed in sensitivity analyses comparing original results to results of the same sample but with additional adjustment for income and education.

Appendix
Prevalence of Cardiovascular Health by Occupation: A Cross-Sectional Analysis
Among U.S. Workers Aged ≥45 Years
MacDonald et al.

Appendix Figure E1. Prevalence ratios, adjusted for sex, race, age, region, education, and income for coronary heart disease/stroke by broad and major occupation group among U.S. workers age ≥45 years. In statistical testing each employment group was compared with all other groups combined; bars indicate 95% CIs.

