Supplementary table 1. Number and mortality rates for Deaths of Despair by occupation among healthcare workers, Massachusetts, 2011 to 2015

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Job title | workers | All deaths of despair | | Poisoning | | Suicide | | Alcoholic liver disease and cirrhosis | | Opioid-related deaths | |
|  |  | Deaths, n (%) | Deaths per 100,000 workers (95% CI) | Deaths (n (%)) | Deaths per 100,000 (95% CI) | Deaths (n (%)) | Deaths per 100,000 (95% CI) | Deaths (n (%)) | Deaths per 100,000 (95% CI) | Deaths (n (%)) | Deaths per 100,000 (95% CI) |
| Medical Assistants and Other Healthcare Support Occupations | 93,993 | 71 (13.1) | 75.5 (58.0, 93.1) | 40 (14.0) | 42.6 (29.4, 55.7) | 17 (11.4) | 18.1 (9.5, 26.7) | 14 (13.2) | 14.9 (7.1, 22.7) | 37 (14.2) | 39.4 (26.7, 52.0) |
| Miscellaneous Health Technologists and Technicians | 15,593 | 10 (1.9) | 64.1 (24.4, 103.9) | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Emergency Medical Technicians and Paramedics | 25,633 | 16 (3.0) | 62.4 (31.8, 93.0) | 11 (3.9) | 42.9 (17.6, 68.3) | [1] | [1] | [1] | [1] | 11 (4.2) | 42.9 (17.6, 68.3) |
| Nursing, Psychiatric, and Home Health Aides | 286,312 | 177 (32.8) | 61.8 (52.7, 70.9) | 112 (39.3) | 39.1 (31.9, 46.4) | 35 (23.5) | 12.2 (8.2, 16.3) | 30 (28.3) | 10.5 (6.7, 14.2) | 105 (40.2) | 36.7 (29.7, 43.7) |
| Respiratory Therapists | 10,304 | 5 (0.9) | 48.5 (6.0, 91.1) | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Massage Therapists | 20,890 | 10 (1.9) | 47.9 (18.2, 77.5) | 5 (1.8) | 23.9 (3.0, 44.9) | 5 (3.4) | 23.9 (3.0, 44.9) | [1] | [1] | 6 (2.3) | 28.7 (5.7, 51.7) |
| Other Healthcare Practitioners and Technical Occupations | 11,731 | 5 (0.9) | 42.6 (5.3, 80.0) | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Health Diagnosing and Treating Practitioner Support Technicians | 71,175 | 23 (4.3) | 32.3 (19.1, 45.5) | 14 (4.9) | 19.7 (9.4, 30.0) | [1] | [1] | 6 (5.7) | 8.4 (1.7, 15.2) | 15 (5.7) | 21.1 (10.4, 31.7) |
| Occupational Therapists | 18,818 | 6 (1.1) | 31.9 (6.4, 57.4) | [1] | [1] | 5 (3.4) | 26.6 (3.3, 49.9) | [1] | [1] | [1] | [1] |
| Medical Records and Health Information Technicians | 20,802 | 6 (1.1) | 28.8 (5.8, 51.9) | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Registered Nurses | 466,084 | 118 (21.9) | 25.3 (20.7, 29.9) | 53 (18.6) | 11.4 (8.3, 14.4) | 37 (24.8) | 7.9 (5.4, 10.5) | 28 (26.4) | 6.0 (3.8, 8.2) | 48 (18.4) | 10.3 (7.4, 13.2) |
| Dental Assistants | 32,298 | 8 (1.5) | 24.8 (7.6, 41.9) | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Clinical Laboratory Technologists and Technicians | 59,879 | 13 (2.4) | 21.7 (9.9, 33.5) | 7 (2.5) | 11.7 (3.0, 20.4) | [1] | [1] | [1] | [1] | 5 (1.9) | 8.4 (1.0, 15.7) |
| Diagnostic Related Technologists and Technicians | 41,515 | 9 (1.7) | 21.7 (7.5, 35.8) | [1] | [1] | 6 (4.0) | 14.5 (2.9, 26.0) | [1] | [1] | [1] | [1] |
| Licensed Practical and Licensed Vocational Nurses | 82,668 | 17 (3.1) | 20.6 (10.8, 30.3) | 9 (3.2) | 10.9 (3.8, 18.0) | 5 (3.4) | 6.0 (0.7, 11.3) | [1] | [1] | 8 (3.1) | 9.7 (3.0, 16.4) |
| Pharmacists | 37,461 | 6 (1.1) | 16.0 (3.2, 28.8) | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Physicians and Surgeons | 160,620 | 13 (2.4) | 8.1 (3.7, 12.5) | [1] | [1] | 7 (4.7) | 4.4 (1.1, 7.6) | [1] | [1] | [1] | [1] |
| Podiatrists | 885 | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Audiologists | 2,749 | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Radiation Therapists | 2,018 | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| Occupational Therapist Assistants and Aides | 2,273 | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] |
| **Total** | **1,667,806** | **540** | **32.4 (29.6, 35.1)** | **285** | **17.1 (15.1, 19.1)** | **149** | **8.9 (7.5, 10.4)** | **106** | **6.4 (5.1, 7.6)** | **261** | **15.6 (13.8, 17.5)** |

[1] indicates an occupation has less than 5 deaths in a specific category