**SUPPLEMENTARY DATA**

| **Region, number of counties** | **Age-group (years)** | **Number of Total deaths** | **Mortality rate per 100,000 inhabitants** |
| --- | --- | --- | --- |
| **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **Total** |
| **Alentejo, n=58 (rural)** | <50 | 151 | 4.87 | 4.44 | 5.35 | 5.83 | 8.57 | 5.90 | 5.49 | 3.69 | 6.98 | 6.59 | 4.78 | 6.79 | 5.77 |
| 50-64 | 376 | 52.48 | 51.51 | 32.22 | 53.42 | 37.91 | 41.86 | 41.49 | 49.44 | 40.92 | 40.54 | 36.13 | 39.80 | 43.11 |
| ≤64 | 527 | 16.44 | 15.83 | 11.84 | 17.34 | 15.70 | 14.73 | 14.43 | 15.18 | 15.61 | 15.36 | 13.02 | 15.64 | 15.10 |
| ≥65 | 1,059 | 83.53 | 69.81 | 80.07 | 90.27 | 72.32 | 89.59 | 94.24 | 93.96 | 79.07 | 81.77 | 96.22 | 101.93 | 86.13 |
| Total | 1,586 | 33.21 | 29.46 | 29.24 | 36.10 | 30.36 | 34.20 | 35.29 | 35.87 | 32.39 | 33.04 | 35.30 | 38.92 | 33.60 |
| AMR | - | 20.83 | 19.07 | 17.02 | 22.35 | 18.98 | 20.01 | 19.67 | 19.99 | 18.40 | 18.39 | 18.60 | 20.73 | 19.50 |
| **Algarve, n=16 (rural)** | <50 | 113 | 7.09 | 5.41 | 3.81 | 6.03 | 7.44 | 6.63 | 11.66 | 5.82 | 2.89 | 8.73 | 11.82 | 6.73 | 7.02 |
| 50-64 | 244 | 58.93 | 71.61 | 56.77 | 53.10 | 36.51 | 40.88 | 47.44 | 53.32 | 51.94 | 62.71 | 47.57 | 44.71 | 51.92 |
| ≤64 | 357 | 18.46 | 19.93 | 15.47 | 16.43 | 13.90 | 14.29 | 19.74 | 16.40 | 13.98 | 21.24 | 20.29 | 15.89 | 17.17 |
| ≥65 | 520 | 85.54 | 121.70 | 71.60 | 75.10 | 80.71 | 112.49 | 106.23 | 92.83 | 90.72 | 95.27 | 98.11 | 115.20 | 95.69 |
| Total | 877 | 32.26 | 40.80 | 26.97 | 28.46 | 27.61 | 34.50 | 37.59 | 31.98 | 29.76 | 36.70 | 36.83 | 37.37 | 33.43 |
| AMR | - | 23.89 | 28.59 | 19.91 | 20.88 | 19.43 | 21.89 | 26.02 | 22.93 | 20.11 | 25.36 | 25.68 | 22.59 | 23.12 |
| **Centre, n=100 (rural)** | <50 | 501 | 5.58 | 4.64 | 4.94 | 6.07 | 6.11 | 6.44 | 5.93 | 6.69 | 6.19 | 6.29 | 6.25 | 5.91 | 5.91 |
| 50-64 | 1,097 | 51.79 | 46.96 | 45.45 | 41.98 | 34.35 | 33.52 | 35.28 | 36.58 | 42.62 | 37.87 | 40.26 | 38.55 | 40.35 |
| ≤64 | 1,598 | 16.09 | 14.32 | 14.26 | 14.41 | 12.76 | 12.90 | 13.04 | 14.05 | 15.32 | 14.36 | 15.15 | 14.65 | 14.27 |
| ≥65 | 2,874 | 84.75 | 85.74 | 71.26 | 71.91 | 81.93 | 76.24 | 88.93 | 88.47 | 85.78 | 87.89 | 91.04 | 92.41 | 84.01 |
| Total | 4,472 | 31.23 | 30.20 | 27.09 | 27.50 | 28.65 | 27.59 | 30.79 | 31.63 | 32.23 | 32.32 | 33.90 | 34.11 | 30.59 |
| AMR | - | 21.68 | 20.11 | 18.21 | 18.53 | 18.01 | 17.43 | 18.57 | 18.68 | 19.18 | 18.55 | 18.58 | 18.56 | 18.85 |
| **Lisbon, n=18 (urban)** | <50 | 727 | 8.50 | 7.68 | 5.98 | 6.54 | 4.97 | 9.47 | 5.52 | 6.19 | 7.09 | 6.88 | 7.04 | 6.30 | 6.85 |
| 50-64 | 1,615 | 57.96 | 47.92 | 52.78 | 45.37 | 45.84 | 38.64 | 44.79 | 57.86 | 52.19 | 40.27 | 46.95 | 36.90 | 47.22 |
| ≤64 | 2,342 | 20.06 | 17.17 | 17.11 | 15.86 | 14.88 | 16.61 | 15.20 | 18.97 | 18.28 | 15.18 | 16.97 | 13.94 | 16.68 |
| ≥65 | 3,570 | 104.45 | 109.44 | 101.12 | 100.23 | 107.15 | 107.23 | 102.04 | 100.46 | 110.03 | 102.91 | 110.54 | 98.09 | 104.45 |
| Total | 5,912 | 35.21 | 33.90 | 32.56 | 31.60 | 32.31 | 33.96 | 32.08 | 35.11 | 36.90 | 33.44 | 36.92 | 32.33 | 33.87 |
| AMR | - | 26.84 | 24.83 | 23.88 | 22.33 | 22.17 | 23.34 | 21.55 | 24.25 | 24.64 | 21.39 | 23.06 | 19.82 | 23.16 |
| **North, n=86 (intermediate)** | <50 | 767 | 5.19 | 5.44 | 5.08 | 5.21 | 4.30 | 5.06 | 4.79 | 5.17 | 5.58 | 4.22 | 6.95 | 5.42 | 5.19 |
| 50-64 | 1,415 | 33.27 | 37.78 | 34.02 | 34.20 | 33.36 | 36.58 | 38.23 | 35.45 | 29.62 | 35.17 | 32.54 | 26.84 | 33.81 |
| ≤64 | 2,182 | 10.61 | 11.80 | 10.88 | 11.16 | 10.42 | 11.89 | 12.24 | 12.10 | 11.21 | 11.67 | 13.30 | 10.88 | 11.51 |
| ≥65 | 2,738 | 65.95 | 68.51 | 58.59 | 65.28 | 56.27 | 76.24 | 67.19 | 62.57 | 70.95 | 69.90 | 72.01 | 65.16 | 66.65 |
| Total | 4,920 | 19.61 | 21.17 | 18.89 | 20.38 | 18.34 | 23.15 | 22.00 | 21.23 | 22.27 | 22.71 | 24.64 | 21.60 | 21.33 |
| AMR | - | 16.21 | 17.52 | 15.55 | 16.22 | 14.55 | 17.38 | 16.42 | 15.46 | 15.46 | 15.75 | 16.75 | 13.81 | 15.91 |
| **Azores, n=19 (rural)** | <50 | 46 | 7.86 | 2.24 | 4.47 | 5.59 | 10.07 | 6.75 | 2.30 | 1.12 | 2.25 | 5.66 | 1.14 | 2.29 | 4.32 |
| 50-64 | 102 | 22.52 | 44.18 | 64.76 | 47.54 | 72.56 | 40.36 | 21.09 | 54.40 | 43.52 | 32.86 | 18.26 | 52.99 | 42.83 |
| ≤64 | 148 | 10.30 | 9.31 | 14.82 | 12.92 | 21.17 | 12.87 | 5.66 | 10.93 | 10.03 | 10.94 | 4.56 | 12.75 | 11.36 |
| ≥65 | 244 | 91.70 | 86.60 | 117.00 | 101.08 | 110.12 | 59.62 | 92.03 | 85.98 | 129.87 | 113.60 | 122.20 | 116.71 | 102.37 |
| Total | 392 | 22.93 | 21.25 | 30.57 | 26.53 | 34.98 | 20.18 | 18.48 | 22.38 | 28.52 | 26.94 | 23.04 | 29.15 | 25.44 |
| AMR | - | 19.08 | 19.92 | 27.33 | 22.60 | 30.53 | 17.15 | 14.50 | 19.85 | 21.41 | 21.49 | 16.31 | 22.63 | 21.07 |
| **Madeira, n=11 (urban)** | <50 | 69 | 11.42 | 5.65 | 6.73 | 5.58 | 6.67 | 7.76 | 4.29 | 4.29 | 3.23 | 8.77 | 7.82 | 4.55 | 6.37 |
| 50-64 | 177 | 77.42 | 50.74 | 69.65 | 63.29 | 66.91 | 51.46 | 74.79 | 94.47 | 61.88 | 59.41 | 54.00 | 63.85 | 65.54 |
| ≤64 | 246 | 23.37 | 13.86 | 18.31 | 16.35 | 18.05 | 16.14 | 18.12 | 22.31 | 15.39 | 19.74 | 18.19 | 18.33 | 18.18 |
| ≥65 | 285 | 92.30 | 115.12 | 118.70 | 98.23 | 87.37 | 99.55 | 101.60 | 91.88 | 106.89 | 113.53 | 116.46 | 103.38 | 103.89 |
| Total | 531 | 34.50 | 30.22 | 34.53 | 29.67 | 29.42 | 29.93 | 32.25 | 34.17 | 31.14 | 36.13 | 35.63 | 33.64 | 32.64 |
| AMR | - | 32.24 | 25.28 | 29.46 | 25.67 | 26.60 | 25.02 | 26.69 | 29.55 | 24.92 | 26.59 | 26.59 | 25.60 | 26.92 |
| **Portugal, n=308** | <50 | 2,374 | 6.40 | 5.70 | 5.28 | 5.83 | 5.47 | 6.74 | 5.45 | 5.56 | 5.93 | 5.88 | 6.76 | 5.80 | 5.900 |
| 50-64 | 5,026 | 47.76 | 45.51 | 44.08 | 42.16 | 39.08 | 37.42 | 40.52 | 45.35 | 41.44 | 39.14 | 39.20 | 35.15 | 41.282 |
| ≤64 | 7,400 | 15.28 | 14.3 | 13.78 | 13.9 | 13.1 | 13.78 | 13.65 | 14.99 | 14.48 | 14 | 14.9 | 13.271 | 14.118 |
| ≥65 | 11,290 | 84.08 | 86.90 | 77.52 | 79.97 | 80.06 | 87.09 | 87.10 | 84.25 | 88.35 | 87.00 | 92.12 | 87.78 | 85.322 |
| Total | 18,690 | 28.21 | 28.11 | 26.04 | 26.76 | 26.23 | 28.35 | 28.41 | 29.08 | 29.81 | 29.47 | 31.49 | 29.61 | 28.47 |
| AMR | - | 21.45 | 20.83 | 19.23 | 19.36 | 18.53 | 19.49 | 19.18 | 19.70 | 19.47 | 18.80 | 19.59 | 17.86 | 19.46 |

**Supplementary Table 1. Breast cancer number of deaths, total and age-group breast cancer mortality rate and adjusted mortality rate (AMR, European population) in Portugal and the 7 Portuguese regions in 2002-2013**