

**HIV/AIDS in South Africa – how many people died from  
the disease between 1997 and 2010?**

SUPPLEMENTARY APPENDIX

# Table of Contents

|          |                                                                            |           |
|----------|----------------------------------------------------------------------------|-----------|
| <b>A</b> | <b>Trend in number of deaths for source conditions and mortality rates</b> | <b>4</b>  |
| A.1      | Reported HIV/AIDS                                                          | 4         |
| A.2      | HIV/AIDS psuedonyms                                                        | 5         |
| A.3      | Maternal conditions                                                        | 6         |
| A.4      | Tuberculosis                                                               | 7         |
| A.5      | Diarrhoeal diseases                                                        | 8         |
| A.6      | Meningitis and encephalitis                                                | 9         |
| A.7      | Septicaemia                                                                | 10        |
| A.8      | Other infectious diseases                                                  | 11        |
| A.9      | Lower respiratory infections                                               | 12        |
| A.10     | Endocrine nutritional blood immune                                         | 13        |
| A.11     | Other interstitial lung                                                    | 14        |
| A.12     | Other respiratory                                                          | 15        |
| A.13     | Other digestive diseases                                                   | 16        |
| A.14     | Other neurological conditions                                              | 17        |
| A.15     | Ill defined                                                                | 18        |
| A.16     | Protein-energy malnutrition                                                | 19        |
| A.17     | Sexually transmitted excl HIV                                              | 20        |
| A.18     | Selected vaccine preventable                                               | 21        |
| A.19     | Iron deficiency anaemia                                                    | 22        |
| A.20     | Adult respiratory distress                                                 | 23        |
| A.21     | Other nutritional deficiencies                                             | 24        |
| <b>B</b> | <b>Estimation of misattributed AIDS deaths</b>                             | <b>25</b> |
| <b>C</b> | <b>HIV prevalence trend</b>                                                | <b>27</b> |
| <b>D</b> | <b>Background mortality (<math>\gamma_h</math>) estimates</b>              | <b>28</b> |
| <b>E</b> | <b>HIV estimation by age and sex, 1997 to 2010</b>                         | <b>31</b> |
| E.1      | Ages 1-11mths                                                              | 32        |
| E.2      | Ages 1-4                                                                   | 33        |
| E.3      | Ages 5-9                                                                   | 34        |
| E.4      | Ages 10-14                                                                 | 35        |
| E.5      | Ages 15-19                                                                 | 36        |
| E.6      | Ages 20-24                                                                 | 37        |
| E.7      | Ages 25-29                                                                 | 38        |
| E.8      | Ages 30-34                                                                 | 39        |
| E.9      | Ages 35-39                                                                 | 40        |
| E.10     | Ages 40-44                                                                 | 41        |
| E.11     | Ages 45-49                                                                 | 42        |
| E.12     | Ages 50-54                                                                 | 43        |
| E.13     | Ages 55-59                                                                 | 44        |
| E.14     | Ages 60-64                                                                 | 45        |

|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| E.15 Ages 65-69 . . . . .                                       | 46        |
| E.16 Ages 70-74 . . . . .                                       | 47        |
| <b>F Estimated AIDS deaths by source condition, 1997 - 2010</b> | <b>48</b> |

# A Trend in number of deaths for source conditions and mortality rates

The trend in the number of estimated deaths (adjusted for completeness of registration) is shown for HIV/AIDS, HIV pseudonyms and each source condition for males and females. This is followed by graphs of trend in the numbers of deaths by age and sex as well as the death rates from each cause.

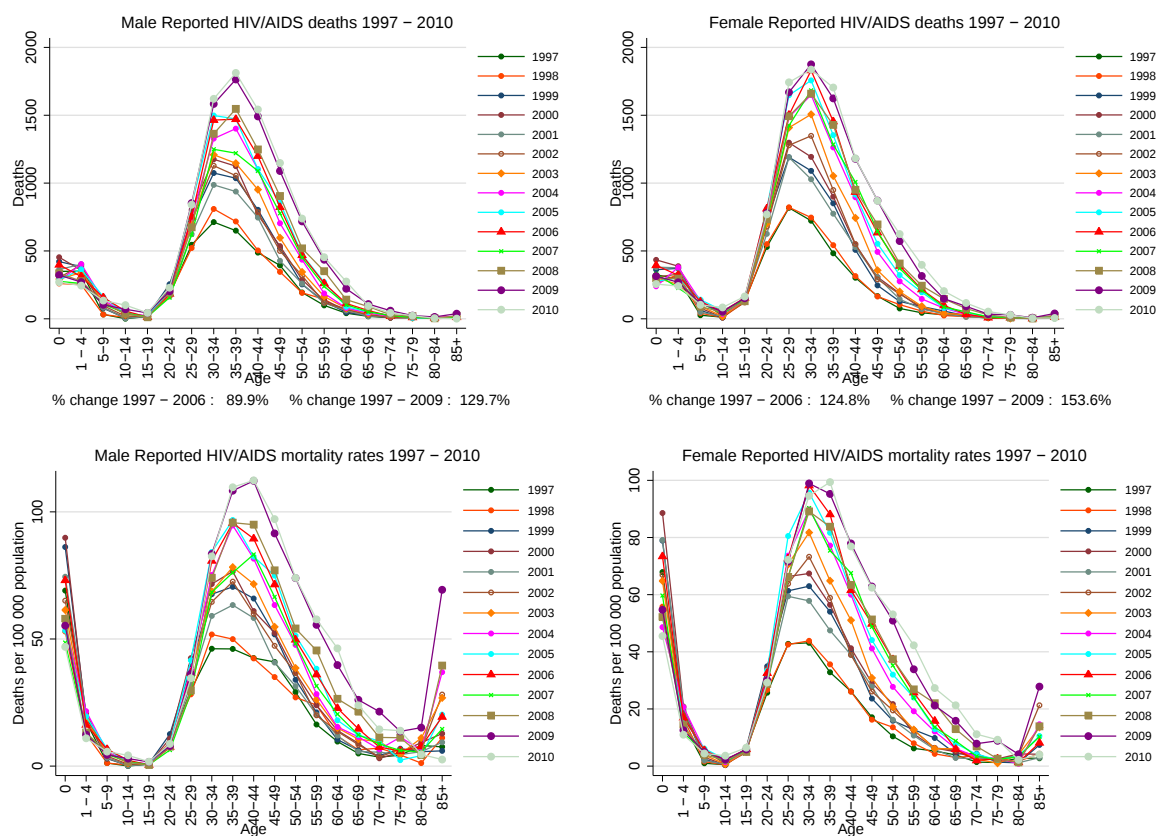
## A.1 Reported HIV/AIDS

**Table A.1: Reported HIV/AIDS deaths 1997 to 2004**

|         | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Males   | 4,097 | 4,776 | 5,814 | 6,107 | 5,258 | 5,780 | 6,274 | 7,162 |
| Females | 3,997 | 4,563 | 5,904 | 6,382 | 5,707 | 6,401 | 6,970 | 8,049 |

**Table A.2: Reported HIV/AIDS deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009   | 2010   | 97-10   |
|---------|-------|-------|-------|-------|--------|--------|---------|
| Males   | 7,774 | 7,780 | 6,708 | 7,890 | 9,412  | 9,622  | 94,453  |
| Females | 8,649 | 8,986 | 8,384 | 8,756 | 10,138 | 10,390 | 103,277 |



**Figure A.1: Number of Reported HIV/AIDS deaths and mortality rates by sex, 1997 - 2010**

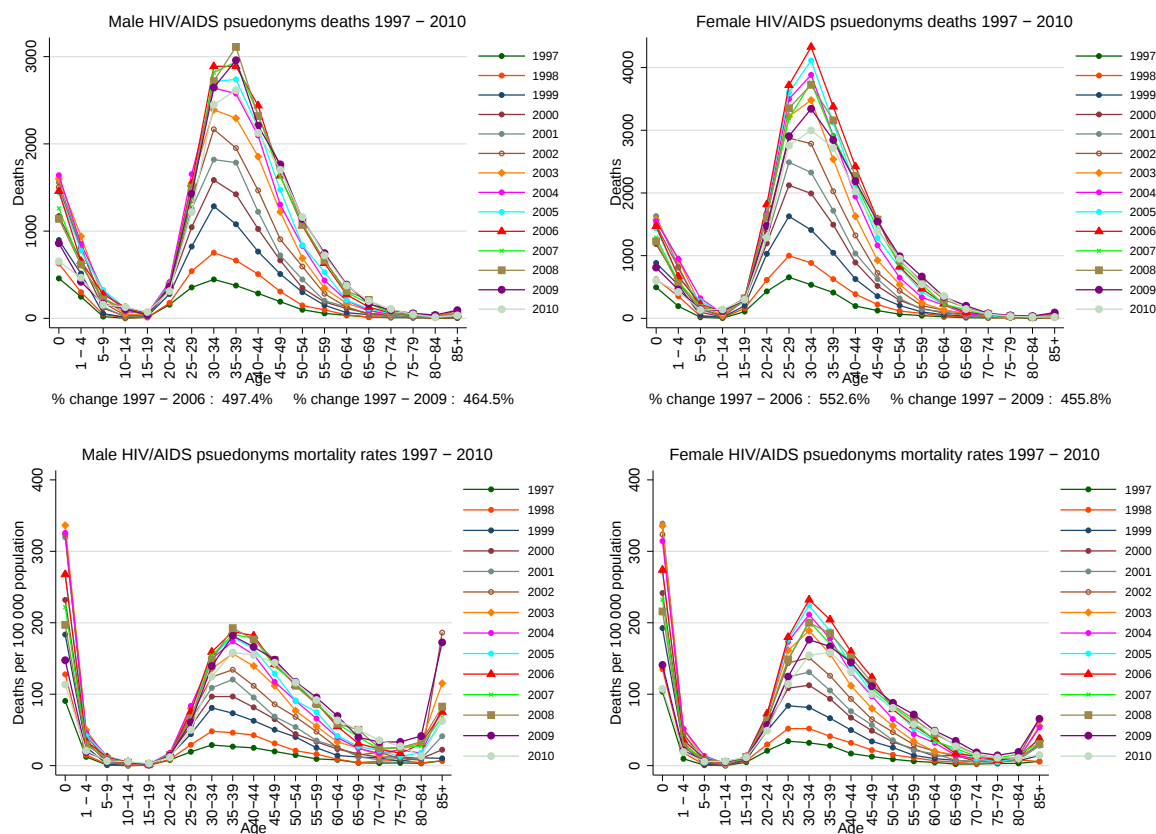
## A.2 HIV/AIDS psuedonyms

**Table A.3: HIV/AIDS psuedonyms deaths 1997 to 2004**

|         | 1997  | 1998  | 1999  | 2000   | 2001   | 2002   | 2003   | 2004   |
|---------|-------|-------|-------|--------|--------|--------|--------|--------|
| Males   | 2,778 | 4,418 | 6,854 | 8,864  | 10,606 | 11,963 | 14,014 | 15,332 |
| Females | 3,342 | 5,426 | 8,241 | 11,101 | 13,070 | 14,953 | 17,620 | 19,713 |

**Table A.4: HIV/AIDS psuedonyms deaths 2005 to 2010 and overall)**

|         | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 97-10   |
|---------|--------|--------|--------|--------|--------|--------|---------|
| Males   | 15,548 | 16,595 | 16,092 | 16,332 | 15,683 | 14,560 | 169,640 |
| Females | 20,498 | 21,809 | 19,465 | 20,225 | 18,575 | 16,932 | 210,971 |



**Figure A.2: Number of HIV/AIDS psuedonyms deaths and mortality rates by sex, 1997 - 2010**

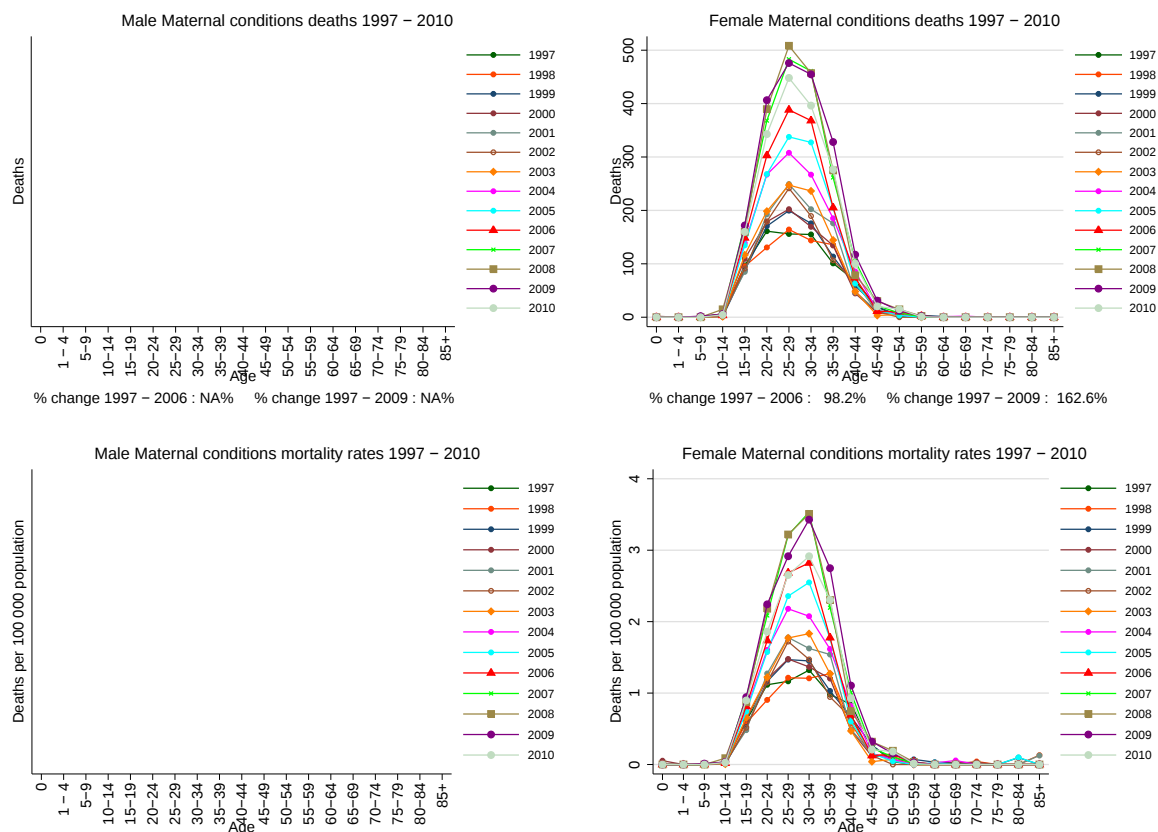
## A.3 Maternal conditions

**Table A.5: Maternal conditions deaths 1997 to 2004**

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003  | 2004  |
|---------|------|------|------|------|------|------|-------|-------|
| Males   | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     |
| Females | 764  | 789  | 837  | 864  | 974  | 886  | 1,001 | 1,279 |

**Table A.6: Maternal conditions deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 97-10  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| Males   | 0     | 0     | 0     | 1     | 0     | 0     | 1      |
| Females | 1,358 | 1,514 | 1,890 | 1,930 | 2,007 | 1,764 | 17,856 |



**Figure A.3: Number of Maternal conditions deaths and mortality rates by sex, 1997 - 2010**

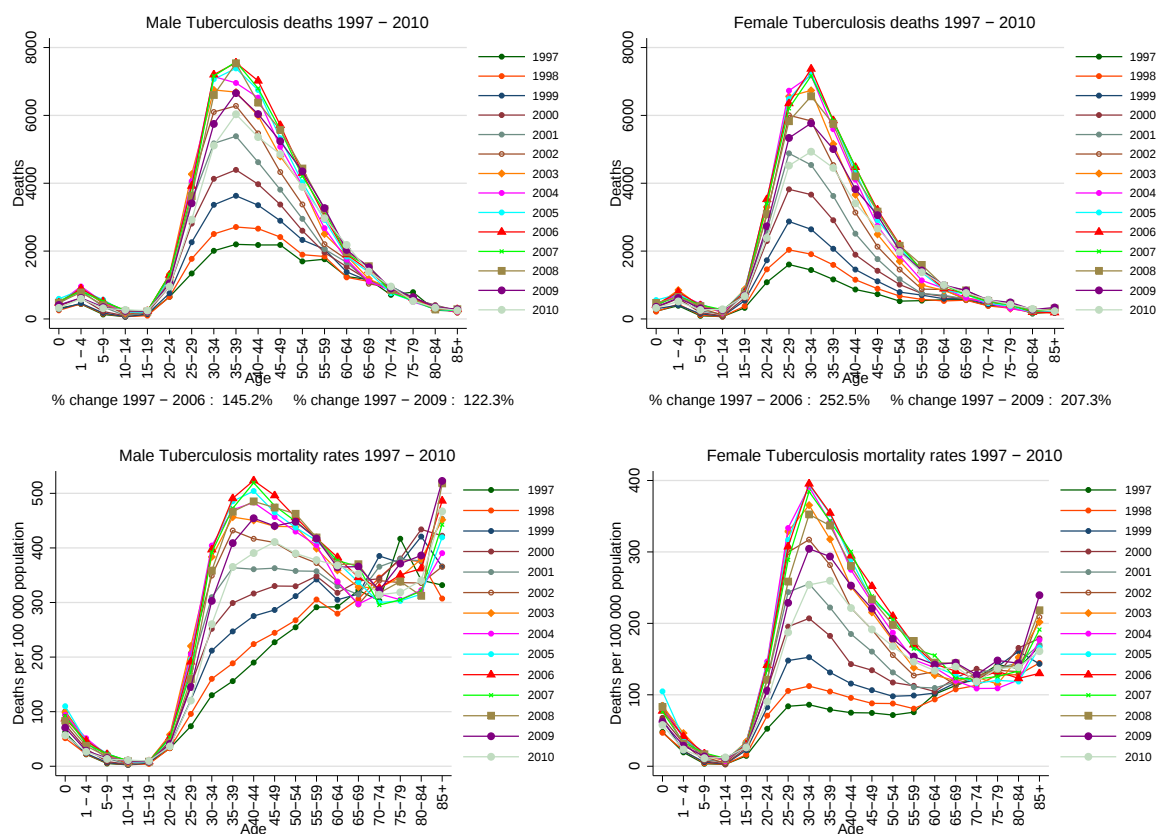
## A.4 Tuberculosis

**Table A.7: Tuberculosis deaths 1997 to 2004**

|         | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Males   | 19,496 | 22,458 | 26,459 | 30,512 | 35,480 | 39,933 | 43,546 | 44,668 |
| Females | 11,362 | 14,084 | 17,235 | 22,221 | 26,702 | 32,234 | 36,080 | 38,144 |

**Table A.8: Tuberculosis deaths 2005 to 2010 and overall)**

|         | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 97-10   |
|---------|--------|--------|--------|--------|--------|--------|---------|
| Males   | 46,085 | 47,809 | 47,153 | 46,126 | 43,349 | 39,501 | 532,576 |
| Females | 39,397 | 40,046 | 39,475 | 38,166 | 34,909 | 31,063 | 421,118 |



**Figure A.4: Number of Tuberculosis deaths and mortality rates by sex, 1997 - 2010**

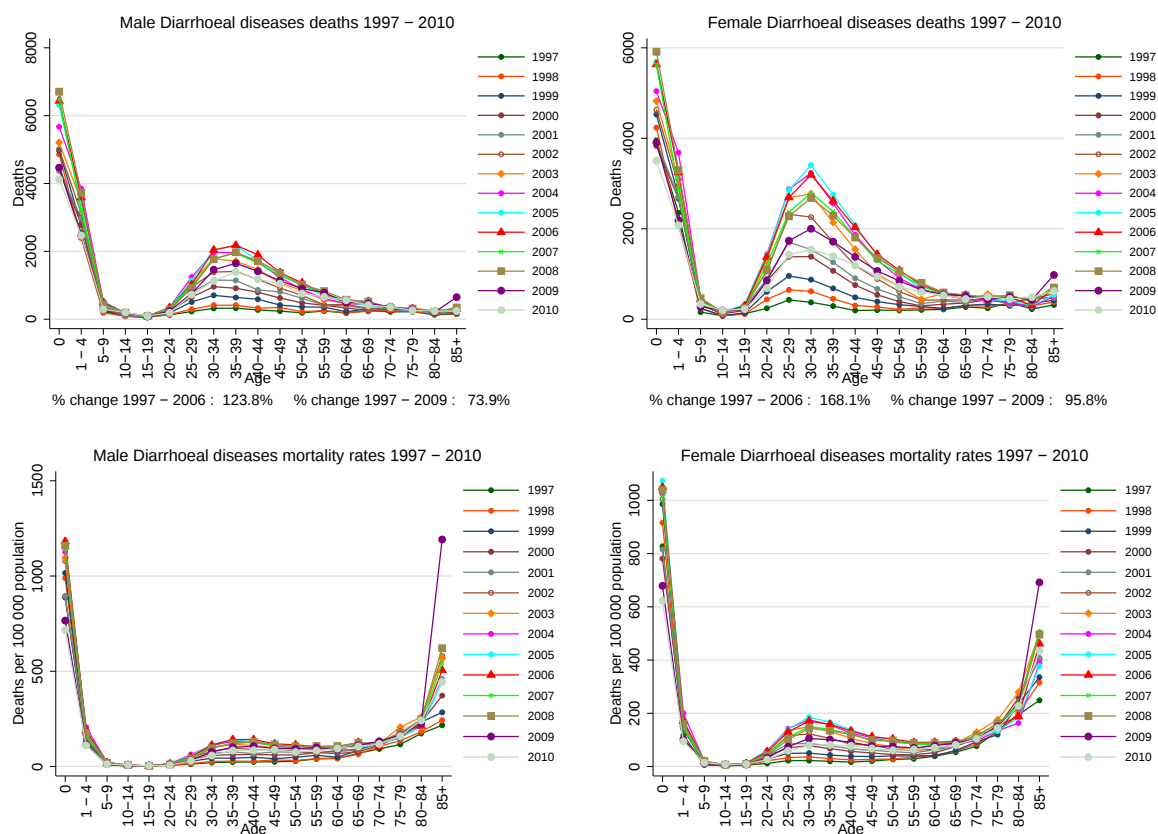
## A.5 Diarrhoeal diseases

**Table A.9: Diarrhoeal diseases deaths 1997 to 2004**

|         | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Males   | 10,533 | 11,296 | 13,401 | 14,392 | 15,669 | 17,878 | 20,349 | 22,076 |
| Females | 10,425 | 11,822 | 14,241 | 16,174 | 17,662 | 21,454 | 24,510 | 27,010 |

**Table A.10: Diarrhoeal diseases deaths 2005 to 2010 and overall)**

|         | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 97-10   |
|---------|--------|--------|--------|--------|--------|--------|---------|
| Males   | 22,878 | 23,572 | 22,280 | 23,316 | 18,313 | 16,335 | 252,290 |
| Females | 28,221 | 27,952 | 26,093 | 26,674 | 20,416 | 17,869 | 290,524 |



**Figure A.5: Number of Diarrhoeal diseases deaths and mortality rates by sex, 1997 - 2010**

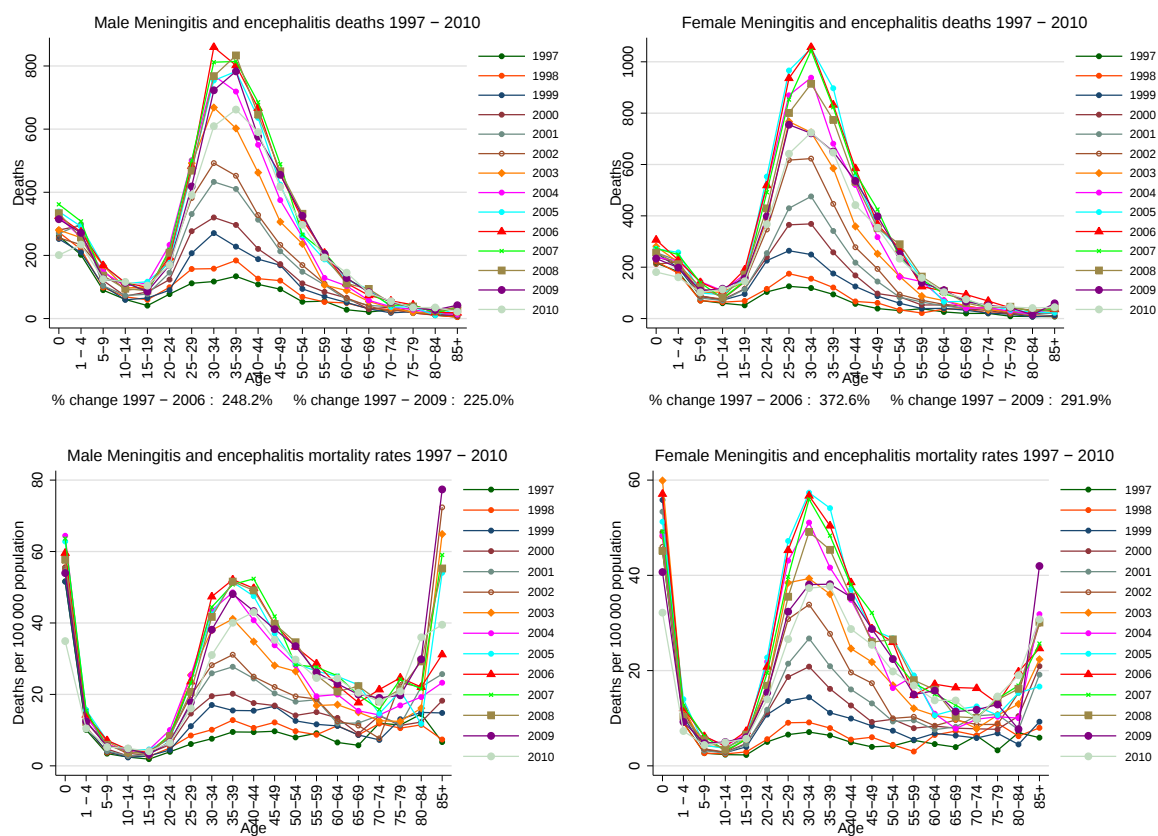
## A.6 Meningitis and encephalitis

**Table A.11: Meningitis and encephalitis deaths 1997 to 2004**

|         | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Males   | 1,520 | 1,903 | 2,150 | 2,628 | 3,117 | 3,401 | 4,209 | 4,736 |
| Females | 1,278 | 1,562 | 2,064 | 2,548 | 2,951 | 3,630 | 4,409 | 5,280 |

**Table A.12: Meningitis and encephalitis deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 97-10  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| Males   | 5,057 | 5,288 | 5,338 | 5,174 | 4,936 | 4,482 | 53,938 |
| Females | 5,951 | 6,041 | 5,806 | 5,426 | 5,009 | 4,625 | 56,579 |



**Figure A.6: Number of Meningitis and encephalitis deaths and mortality rates by sex, 1997 - 2010**

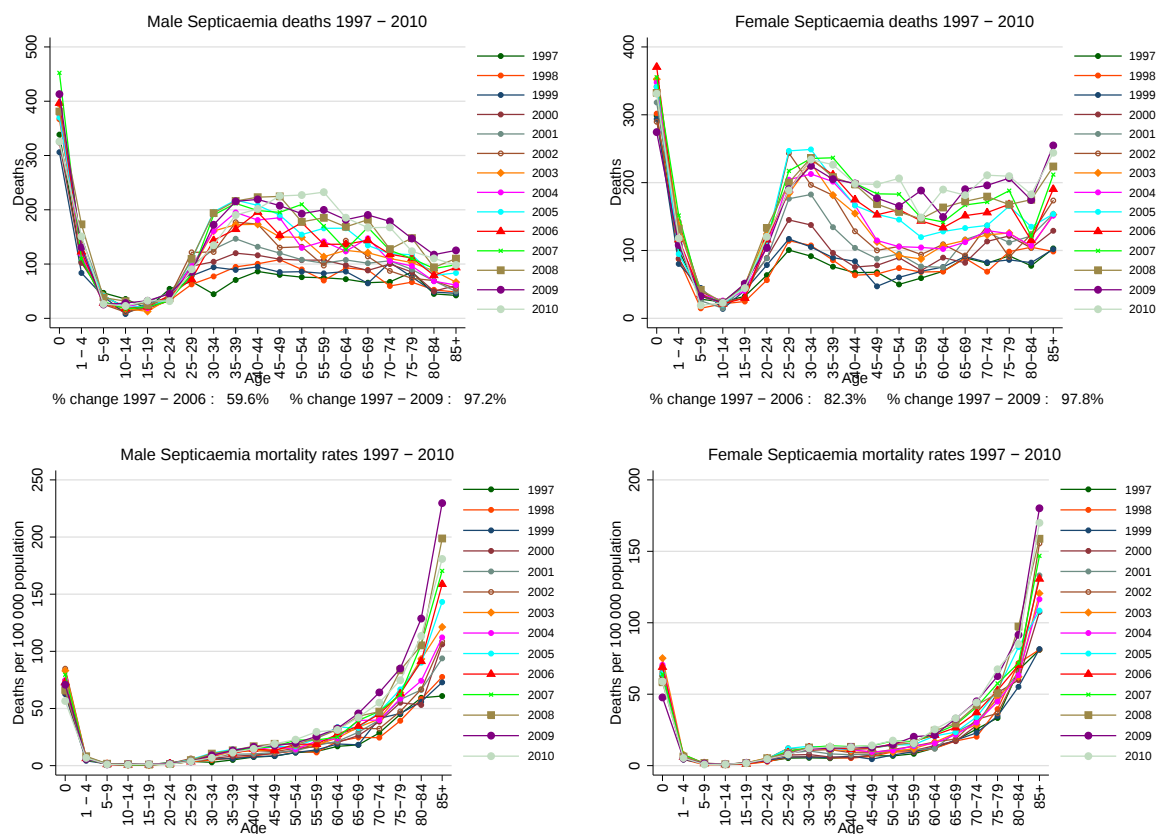
## A.7 Septicaemia

**Table A.13: Septicaemia deaths 1997 to 2004**

|         | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Males   | 1,475 | 1,558 | 1,539 | 1,782 | 1,969 | 2,123 | 2,256 | 2,296 |
| Females | 1,575 | 1,564 | 1,644 | 1,949 | 2,169 | 2,408 | 2,491 | 2,510 |

**Table A.14: Septicaemia deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 97-10  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| Males   | 2,559 | 2,354 | 2,642 | 2,846 | 2,908 | 2,745 | 31,051 |
| Females | 2,790 | 2,870 | 3,137 | 3,107 | 3,115 | 3,274 | 34,603 |



**Figure A.7: Number of Septicaemia deaths and mortality rates by sex, 1997 - 2010**

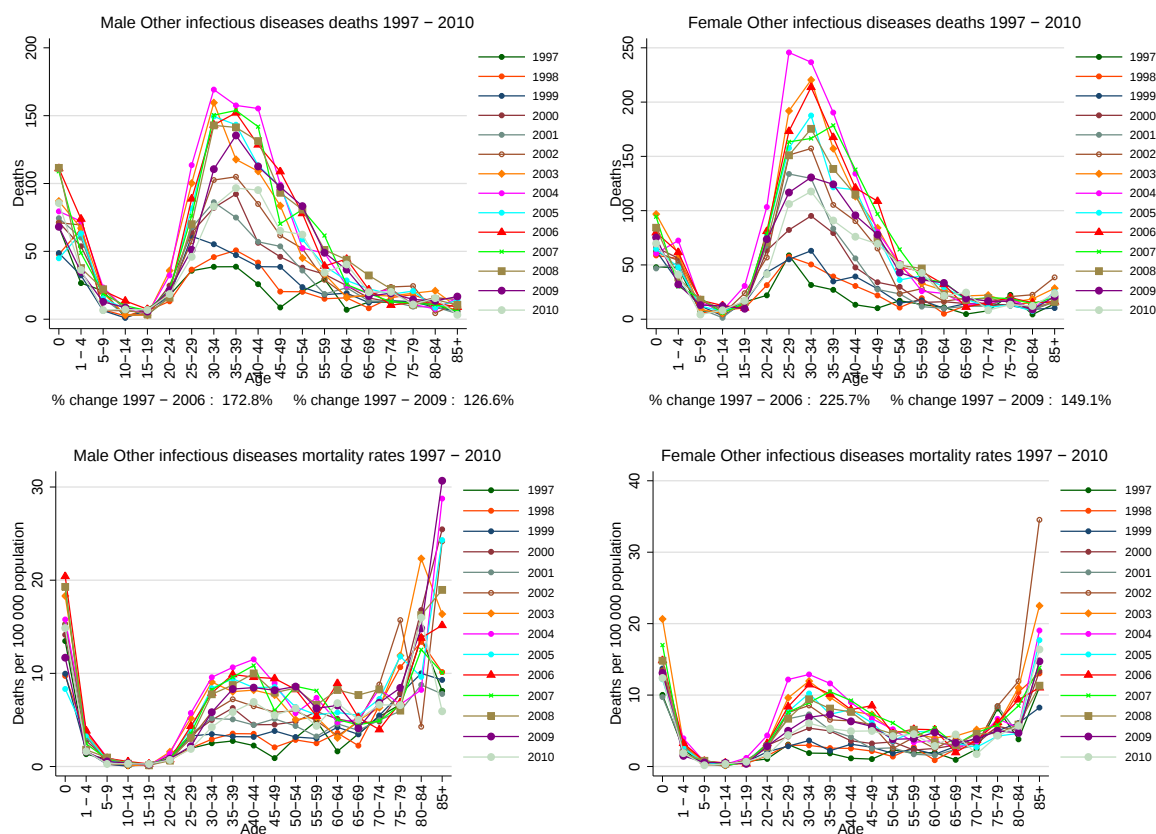
## A.8 Other infectious diseases

**Table A.15: Other infectious diseases deaths 1997 to 2004**

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003  | 2004  |
|---------|------|------|------|------|------|------|-------|-------|
| Males   | 401  | 469  | 467  | 684  | 640  | 769  | 964   | 1,114 |
| Females | 384  | 447  | 494  | 690  | 740  | 972  | 1,239 | 1,360 |

**Table A.16: Other infectious diseases deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009 | 2010 | 97-10  |
|---------|-------|-------|-------|-------|------|------|--------|
| Males   | 955   | 1,094 | 1,036 | 1,043 | 909  | 754  | 11,298 |
| Females | 1,069 | 1,250 | 1,213 | 1,087 | 956  | 838  | 12,738 |



**Figure A.8: Number of Other infectious diseases deaths and mortality rates by sex, 1997 - 2010**

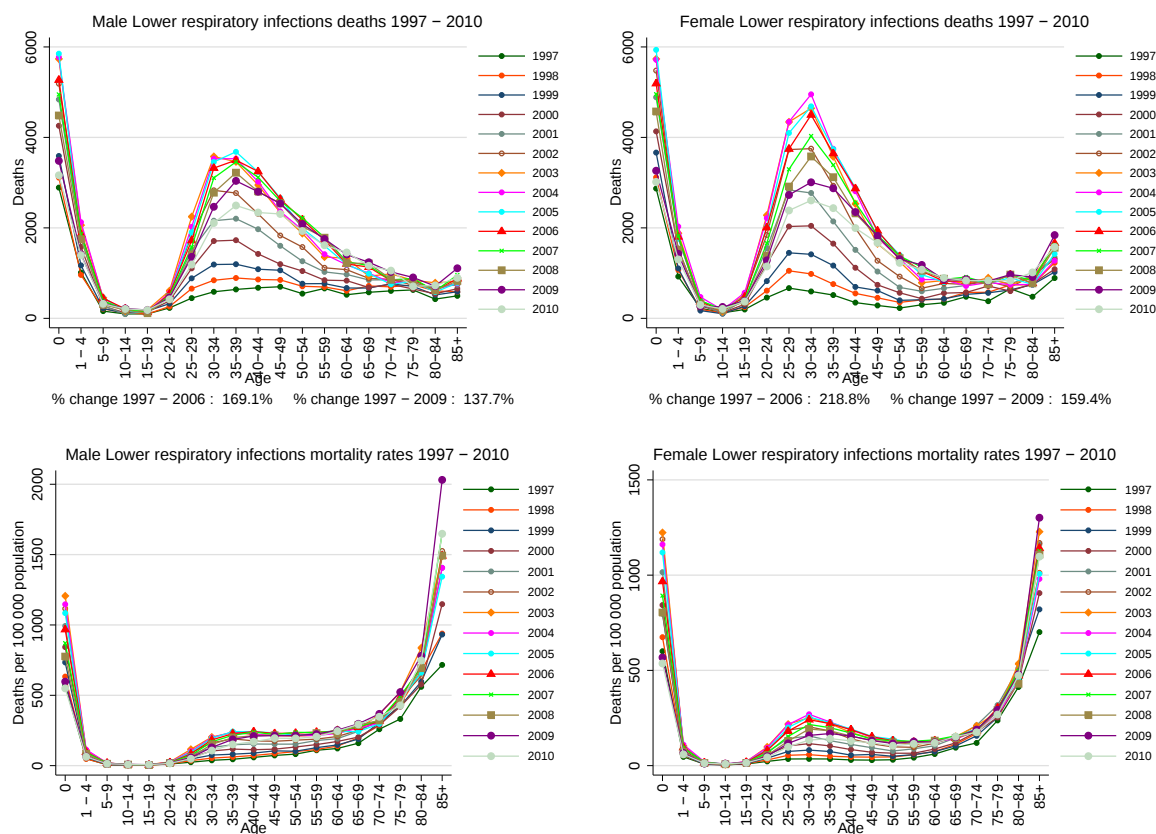
## A.9 Lower respiratory infections

**Table A.17: Lower respiratory infections deaths 1997 to 2004**

|         | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Males   | 12,002 | 13,627 | 16,447 | 19,932 | 24,195 | 27,602 | 32,707 | 32,255 |
| Females | 10,957 | 13,307 | 16,203 | 20,480 | 25,961 | 30,663 | 35,451 | 36,135 |

**Table A.18: Lower respiratory infections deaths 2005 to 2010 and overall)**

|         | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 97-10   |
|---------|--------|--------|--------|--------|--------|--------|---------|
| Males   | 32,554 | 32,300 | 31,607 | 29,413 | 28,527 | 25,682 | 358,849 |
| Females | 35,970 | 34,932 | 33,027 | 30,228 | 28,424 | 25,727 | 377,465 |



**Figure A.9: Number of Lower respiratory infections deaths and mortality rates by sex, 1997 - 2010**

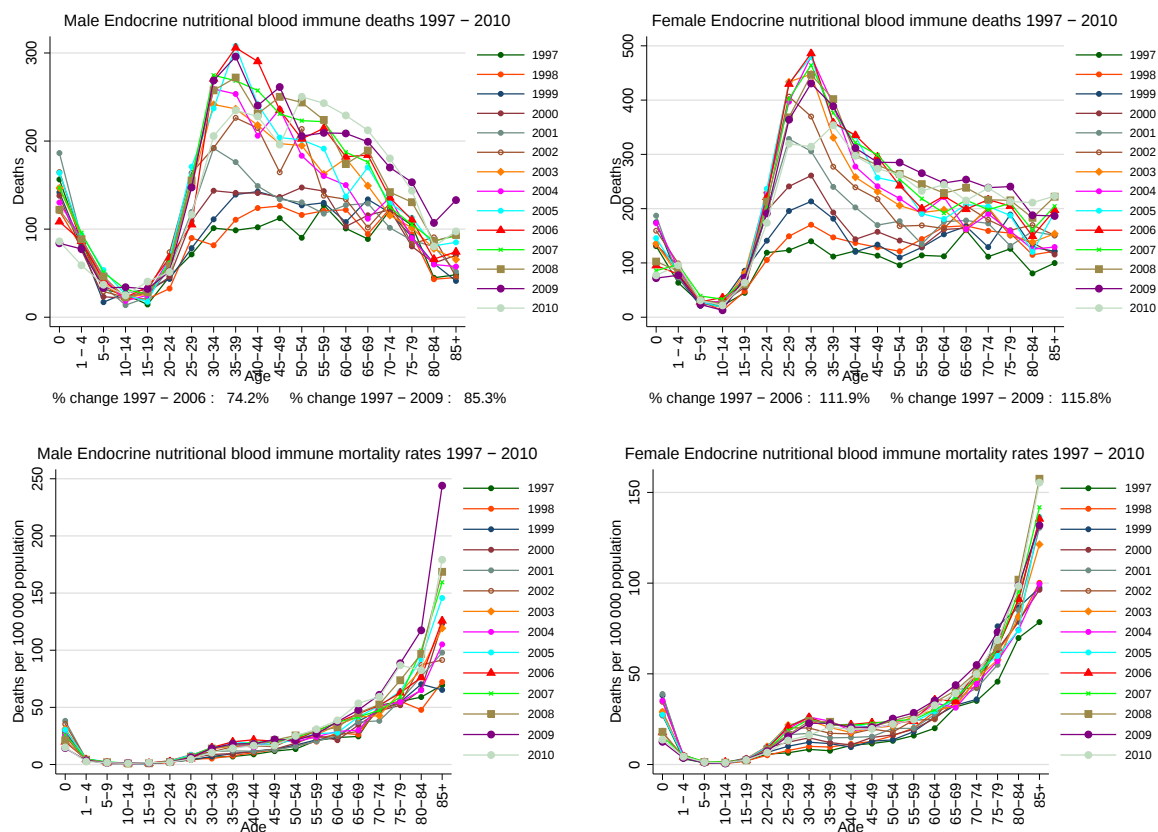
## A.10 Endocrine nutritional blood immune

**Table A.19: Endocrine nutritional blood immune deaths 1997 to 2004**

|         | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Males   | 1,572 | 1,675 | 1,760 | 1,848 | 1,998 | 2,308 | 2,476 | 2,434 |
| Females | 1,916 | 2,271 | 2,496 | 2,732 | 3,085 | 3,480 | 3,685 | 3,800 |

**Table A.20: Endocrine nutritional blood immune deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 97-10  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| Males   | 2,691 | 2,738 | 2,821 | 2,815 | 2,913 | 2,716 | 32,766 |
| Females | 3,972 | 4,060 | 4,045 | 4,126 | 4,135 | 3,861 | 47,663 |



**Figure A.10: Number of Endocrine nutritional blood immune deaths and mortality rates by sex, 1997 - 2010**

## A.11 Other interstitial lung

Table A.21: Other interstitial lung deaths 1997 to 2004

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004  |
|---------|------|------|------|------|------|------|------|-------|
| Males   | 700  | 597  | 642  | 541  | 796  | 667  | 819  | 1,729 |
| Females | 424  | 421  | 547  | 446  | 737  | 602  | 832  | 1,783 |

Table A.22: Other interstitial lung deaths 2005 to 2010 and overall)

|         | 2005  | 2006  | 2007 | 2008 | 2009 | 2010 | 97-10  |
|---------|-------|-------|------|------|------|------|--------|
| Males   | 1,630 | 1,379 | 816  | 929  | 861  | 434  | 12,539 |
| Females | 1,750 | 1,418 | 777  | 854  | 833  | 353  | 11,777 |

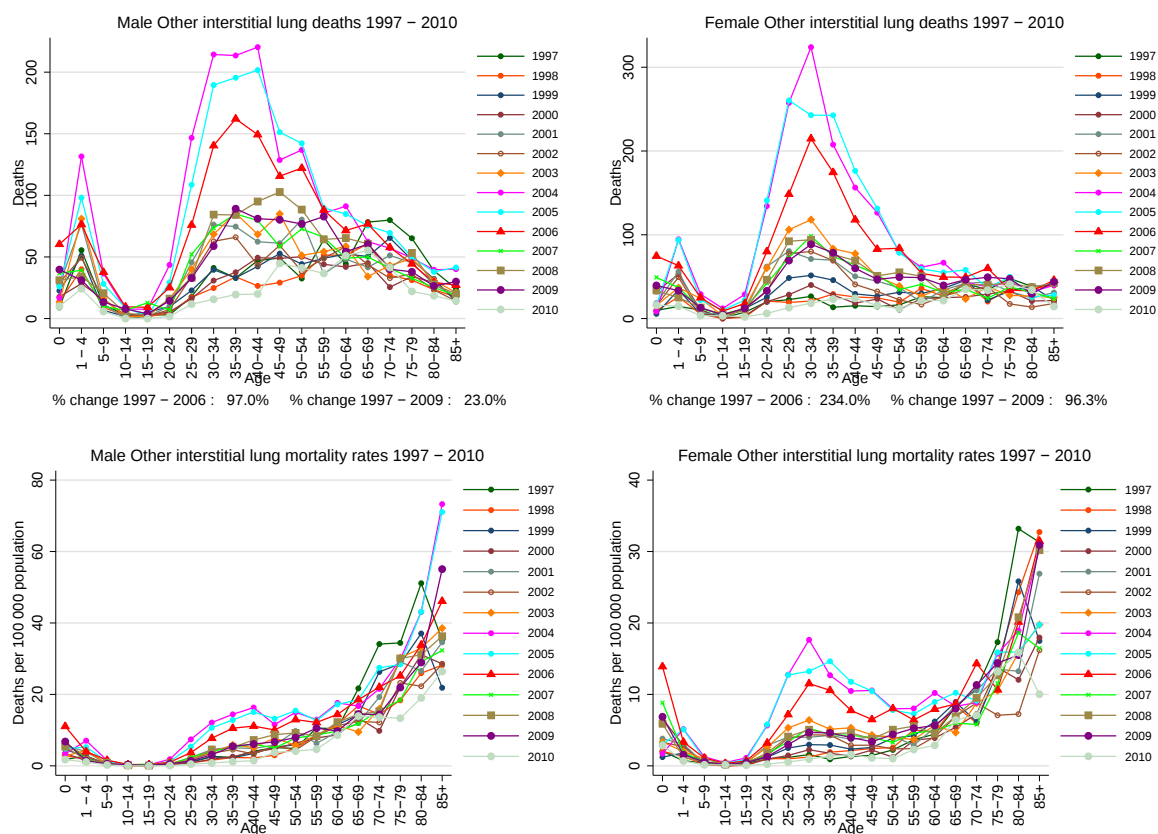


Figure A.11: Number of Other interstitial lung deaths and mortality rates by sex, 1997 - 2010

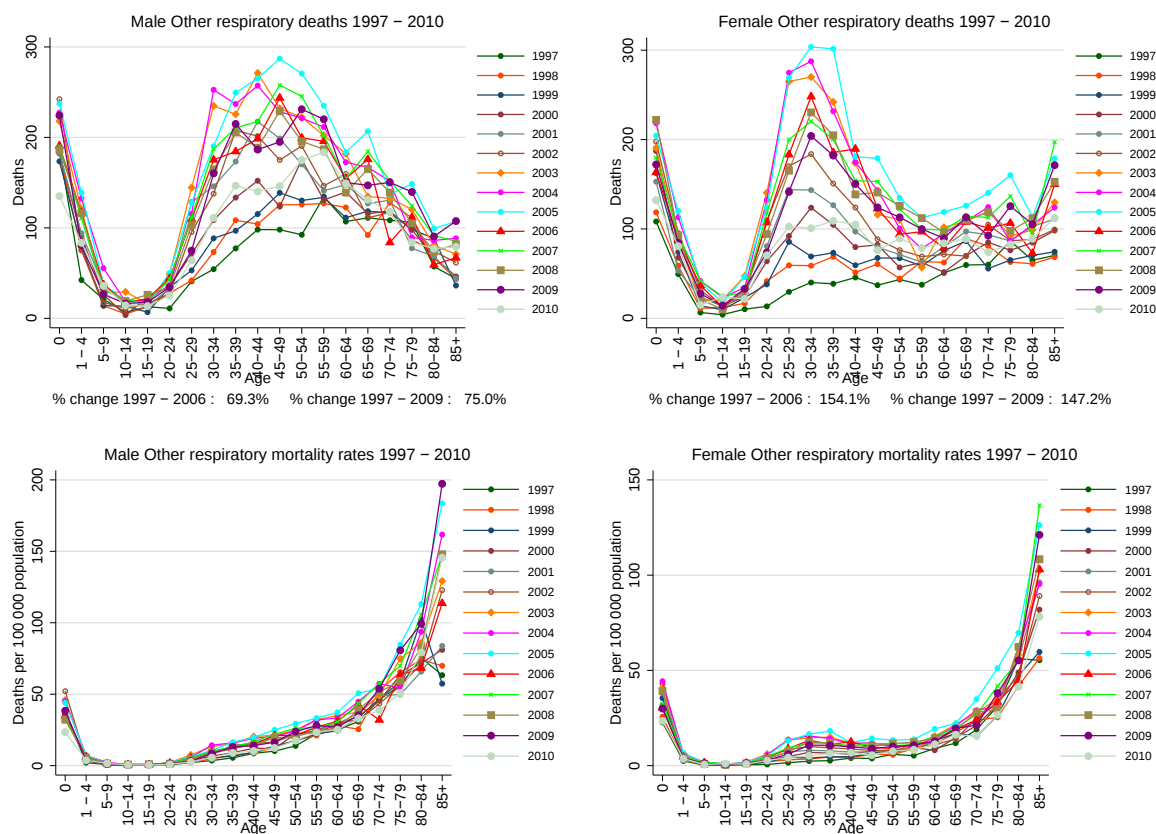
## A.12 Other respiratory

**Table A.23: Other respiratory deaths 1997 to 2004**

|         | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Males   | 1,410 | 1,586 | 1,648 | 1,842 | 2,145 | 2,155 | 2,715 | 2,769 |
| Females | 857   | 1,042 | 1,230 | 1,448 | 1,647 | 1,856 | 2,392 | 2,497 |

**Table A.24: Other respiratory deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 97-10  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| Males   | 3,007 | 2,387 | 2,636 | 2,392 | 2,468 | 1,912 | 31,073 |
| Females | 2,871 | 2,177 | 2,389 | 2,276 | 2,117 | 1,537 | 26,337 |



**Figure A.12: Number of Other respiratory deaths and mortality rates by sex, 1997 - 2010**

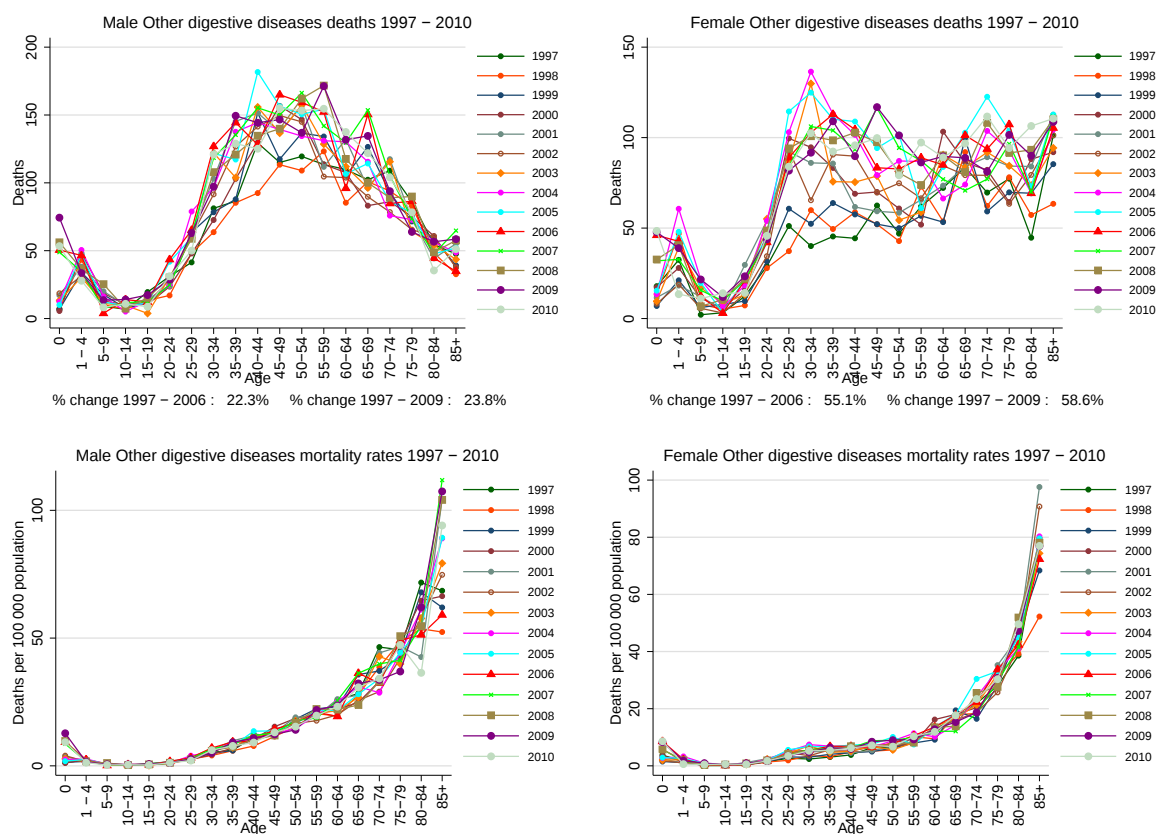
## A.13 Other digestive diseases

**Table A.25: Other digestive diseases deaths 1997 to 2004**

|         | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Males   | 1,316 | 1,229 | 1,366 | 1,338 | 1,510 | 1,369 | 1,448 | 1,484 |
| Females | 898   | 898   | 913   | 1,166 | 1,167 | 1,121 | 1,220 | 1,393 |

**Table A.26: Other digestive diseases deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 97-10  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| Males   | 1,558 | 1,609 | 1,643 | 1,570 | 1,629 | 1,556 | 20,625 |
| Females | 1,468 | 1,393 | 1,343 | 1,383 | 1,424 | 1,406 | 17,192 |



**Figure A.13: Number of Other digestive diseases deaths and mortality rates by sex, 1997 - 2010**

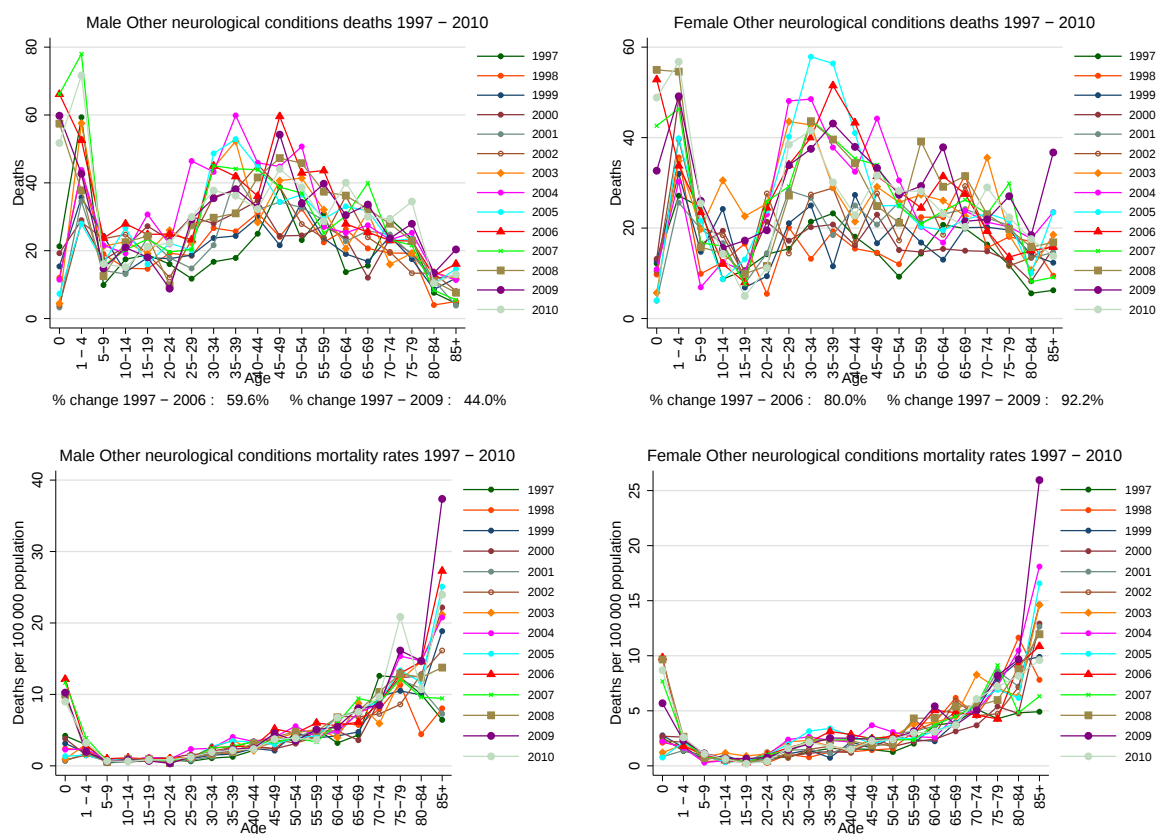
## A.14 Other neurological conditions

**Table A.27: Other neurological conditions deaths 1997 to 2004**

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---------|------|------|------|------|------|------|------|------|
| Males   | 401  | 397  | 399  | 440  | 421  | 459  | 525  | 593  |
| Females | 294  | 321  | 339  | 338  | 372  | 396  | 490  | 479  |

**Table A.28: Other neurological conditions deaths 2005 to 2010 and overall)**

|         | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 97-10 |
|---------|------|------|------|------|------|------|-------|
| Males   | 519  | 640  | 606  | 563  | 578  | 603  | 7,145 |
| Females | 497  | 530  | 504  | 527  | 566  | 509  | 6,163 |



**Figure A.14: Number of Other neurological conditions deaths and mortality rates by sex, 1997 - 2010**

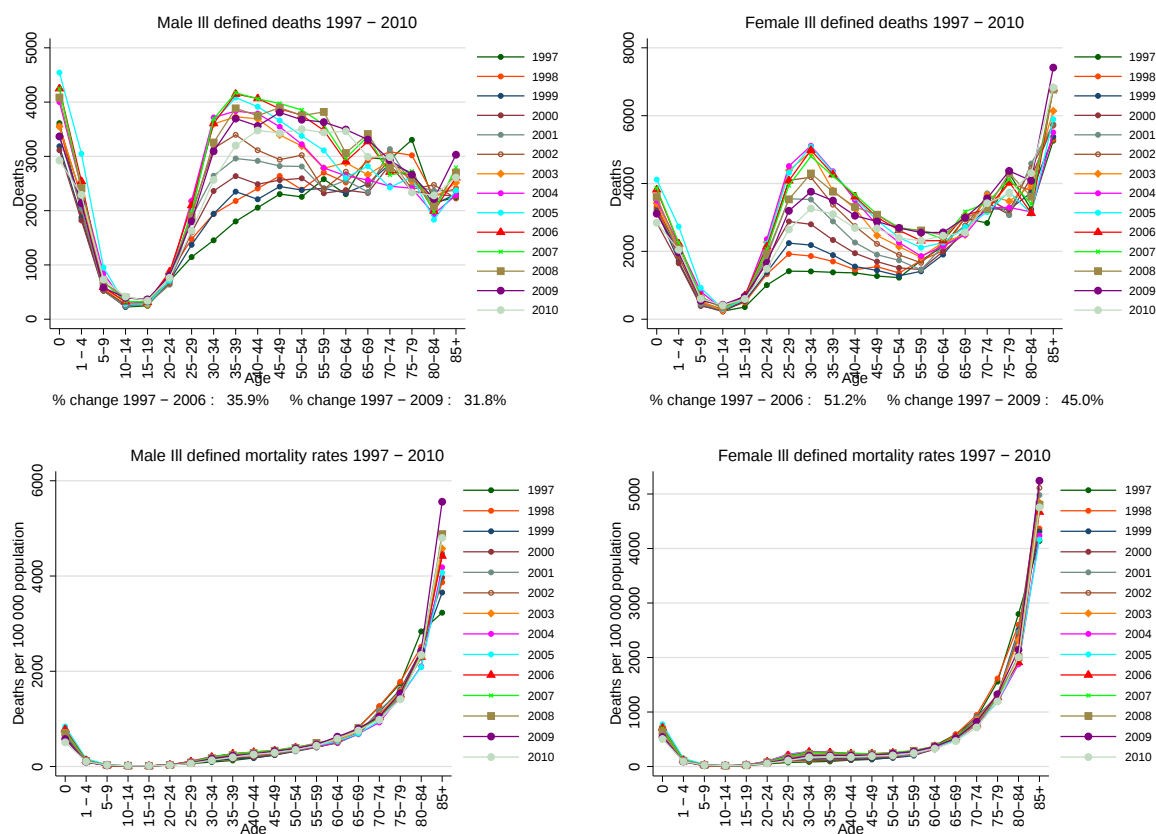
## A.15 Ill defined

**Table A.29: Ill defined deaths 1997 to 2004**

|         | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Males   | 36,859 | 37,925 | 36,725 | 37,757 | 40,765 | 42,768 | 46,121 | 45,998 |
| Females | 37,928 | 39,302 | 39,670 | 43,064 | 47,509 | 50,690 | 53,971 | 54,105 |

**Table A.30: Ill defined deaths 2005 to 2010 and overall)**

|         | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 97-10   |
|---------|--------|--------|--------|--------|--------|--------|---------|
| Males   | 48,278 | 50,084 | 50,582 | 49,628 | 48,563 | 45,381 | 617,433 |
| Females | 56,522 | 57,365 | 58,141 | 55,854 | 54,987 | 50,342 | 699,451 |



**Figure A.15: Number of Ill defined deaths and mortality rates by sex, 1997 - 2010**

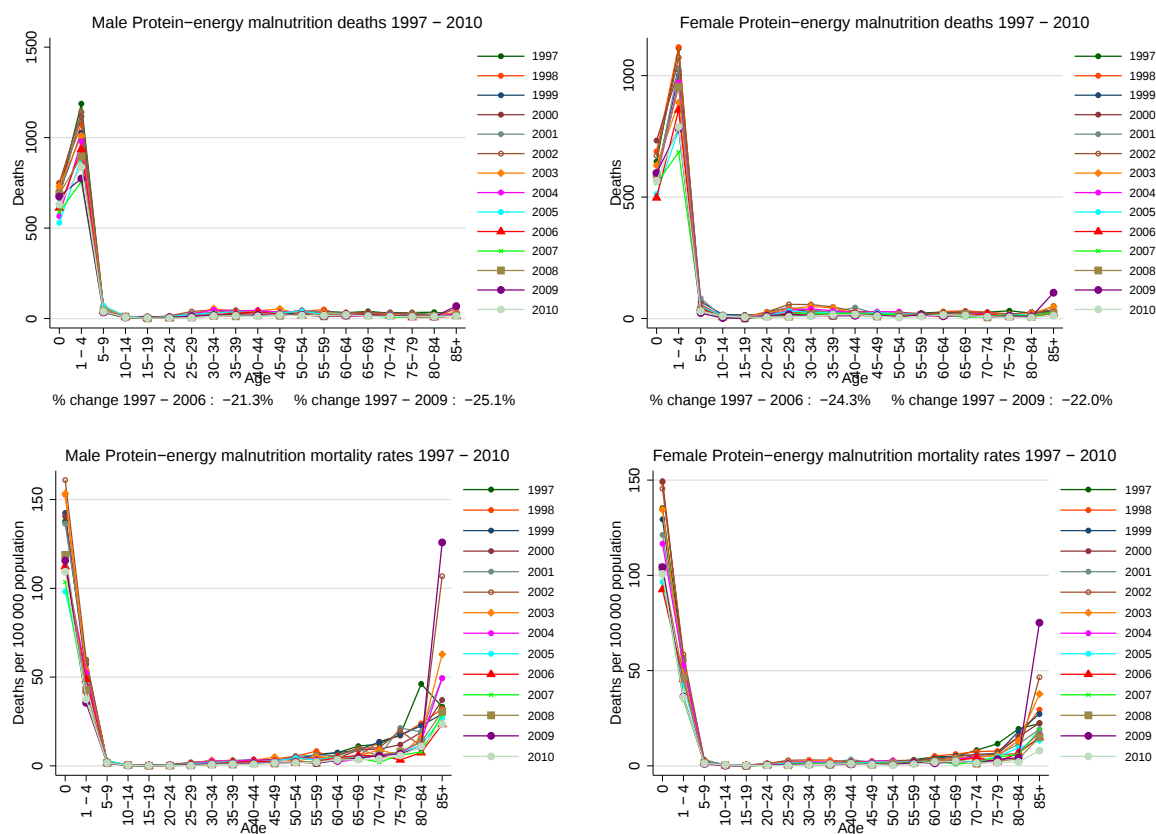
## A.16 Protein-energy malnutrition

**Table A.31: Protein-energy malnutrition deaths 1997 to 2004**

|         | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Males   | 2,347 | 2,255 | 2,228 | 2,259 | 2,283 | 2,442 | 2,202 | 1,949 |
| Females | 2,131 | 2,001 | 2,040 | 2,140 | 2,045 | 2,263 | 1,959 | 1,908 |

**Table A.32: Protein-energy malnutrition deaths 2005 to 2010 and overall)**

|         | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 97-10  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| Males   | 1,826 | 1,848 | 1,571 | 1,830 | 1,759 | 1,693 | 28,492 |
| Females | 1,611 | 1,614 | 1,501 | 1,758 | 1,662 | 1,533 | 26,166 |



**Figure A.16: Number of Protein-energy malnutrition deaths and mortality rates by sex, 1997 - 2010**

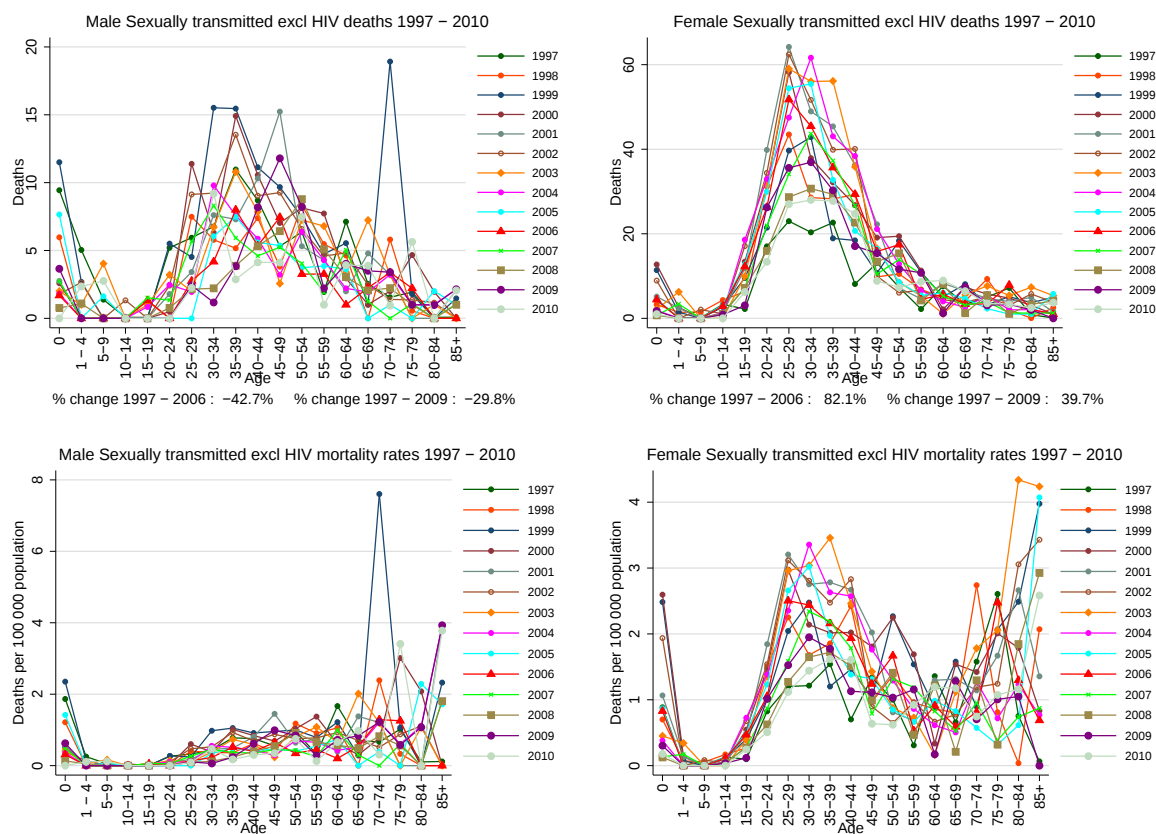
## A.17 Sexually transmitted excl HIV

**Table A.33: Sexually transmitted excl HIV deaths 1997 to 2004**

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---------|------|------|------|------|------|------|------|------|
| Males   | 80   | 73   | 117  | 82   | 70   | 81   | 70   | 56   |
| Females | 148  | 217  | 237  | 290  | 319  | 306  | 320  | 303  |

**Table A.34: Sexually transmitted excl HIV deaths 2005 to 2010 and overall)**

|         | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 97-10 |
|---------|------|------|------|------|------|------|-------|
| Males   | 49   | 46   | 50   | 46   | 57   | 53   | 928   |
| Females | 265  | 269  | 227  | 193  | 207  | 181  | 3,482 |



**Figure A.17: Number of Sexually transmitted excl HIV deaths and mortality rates by sex, 1997 - 2010**

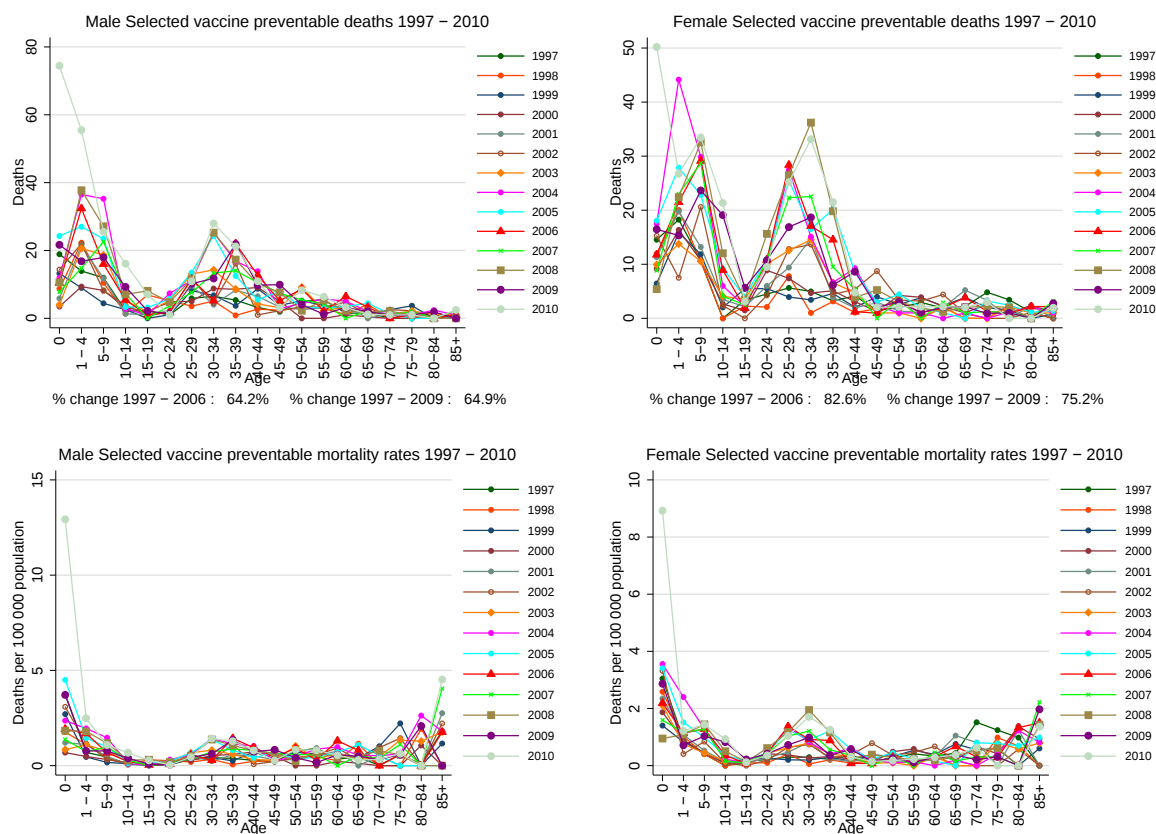
## A.18 Selected vaccine preventable

**Table A.35: Selected vaccine preventable deaths 1997 to 2004**

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---------|------|------|------|------|------|------|------|------|
| Males   | 89   | 70   | 82   | 70   | 88   | 105  | 120  | 188  |
| Females | 89   | 90   | 82   | 89   | 104  | 108  | 98   | 178  |

**Table A.36: Selected vaccine preventable deaths 2005 to 2010 and overall)**

|         | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 97-10 |
|---------|------|------|------|------|------|------|-------|
| Males   | 167  | 147  | 126  | 182  | 147  | 277  | 1,858 |
| Females | 182  | 163  | 150  | 198  | 156  | 244  | 1,932 |



**Figure A.18: Number of Selected vaccine preventable deaths and mortality rates by sex, 1997 - 2010**

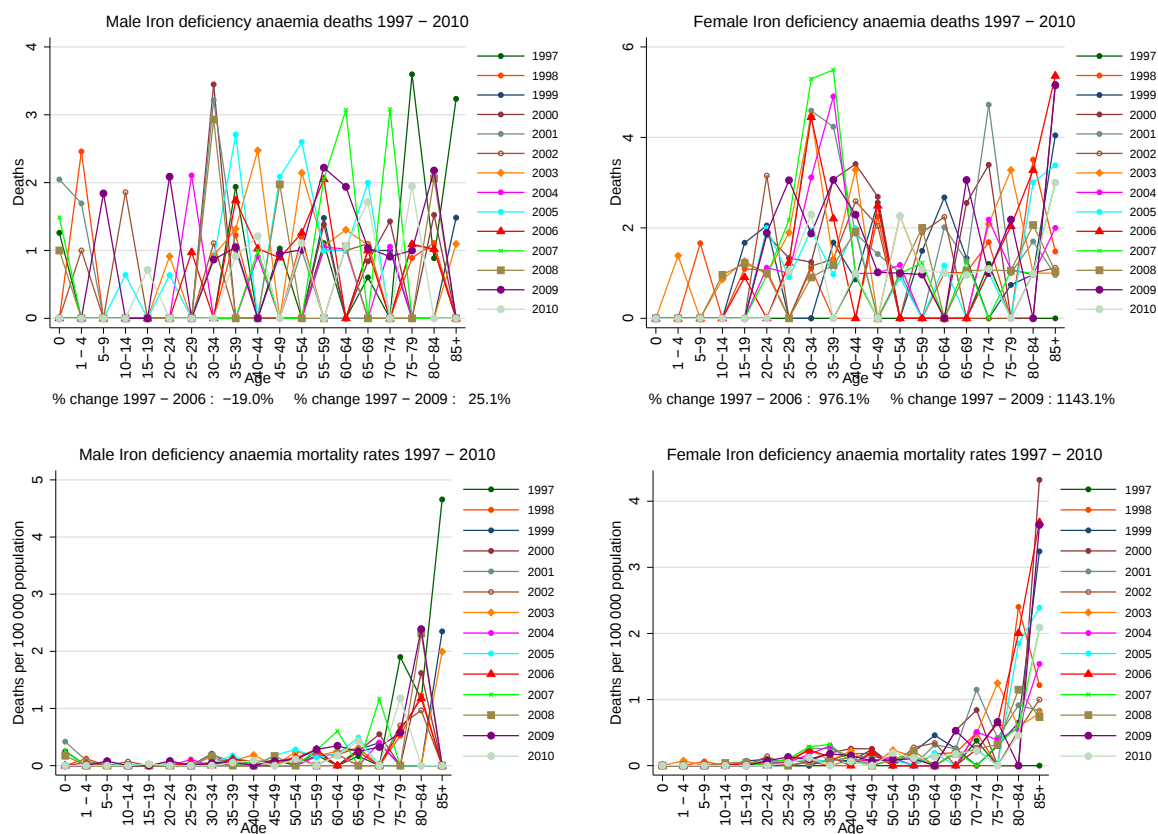
## A.19 Iron deficiency anaemia

**Table A.37: Iron deficiency anaemia deaths 1997 to 2004**

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---------|------|------|------|------|------|------|------|------|
| Males   | 14   | 10   | 5    | 9    | 9    | 9    | 12   | 6    |
| Females | 2    | 14   | 20   | 25   | 26   | 17   | 26   | 20   |

**Table A.38: Iron deficiency anaemia deaths 2005 to 2010 and overall)**

|         | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 97-10 |
|---------|------|------|------|------|------|------|-------|
| Males   | 14   | 11   | 11   | 9    | 17   | 9    | 144   |
| Females | 17   | 23   | 23   | 16   | 27   | 15   | 270   |



**Figure A.19: Number of Iron deficiency anaemia deaths and mortality rates by sex, 1997 - 2010**

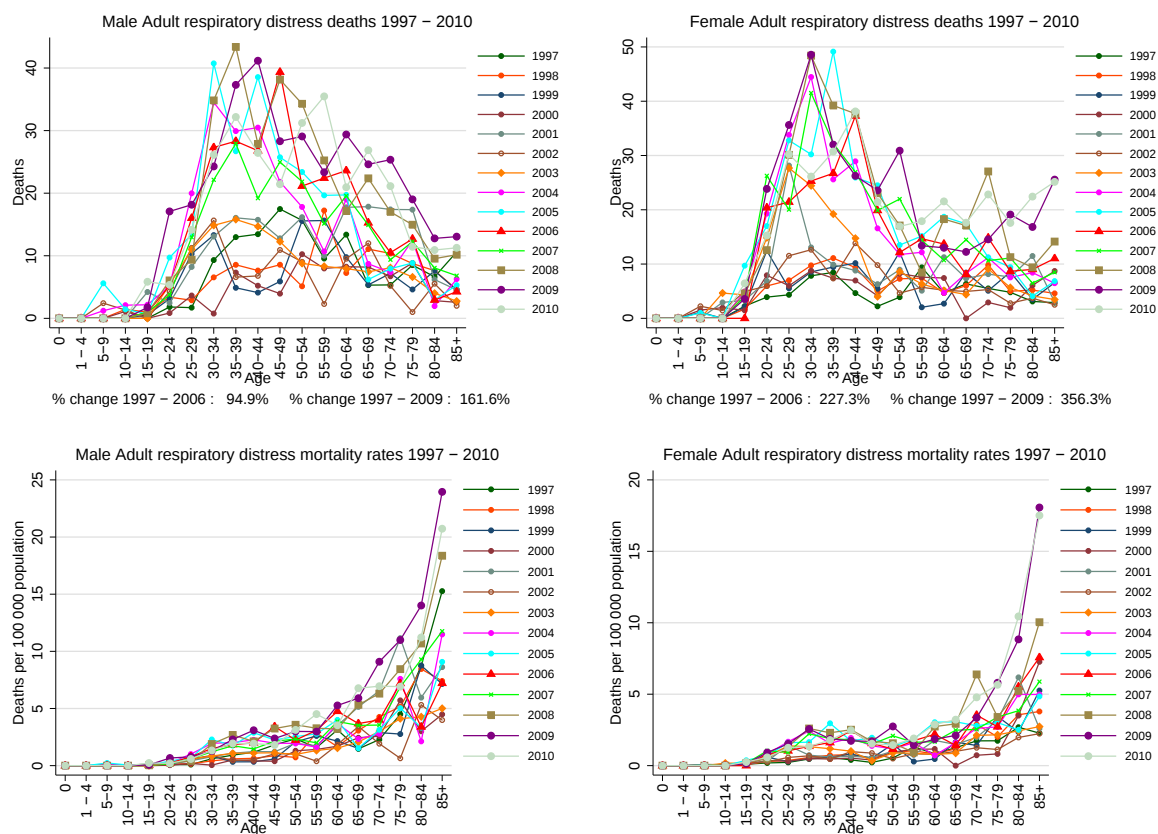
## A.20 Adult respiratory distress

**Table A.39: Adult respiratory distress deaths 1997 to 2004**

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---------|------|------|------|------|------|------|------|------|
| Males   | 132  | 116  | 112  | 78   | 180  | 106  | 128  | 232  |
| Females | 74   | 103  | 104  | 89   | 142  | 105  | 161  | 244  |

**Table A.40: Adult respiratory distress deaths 2005 to 2010 and overall)**

|         | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 97-10 |
|---------|------|------|------|------|------|------|-------|
| Males   | 257  | 257  | 220  | 311  | 345  | 301  | 2,774 |
| Females | 287  | 243  | 269  | 318  | 339  | 330  | 2,809 |



**Figure A.20: Number of Adult respiratory distress deaths and mortality rates by sex, 1997 - 2010**

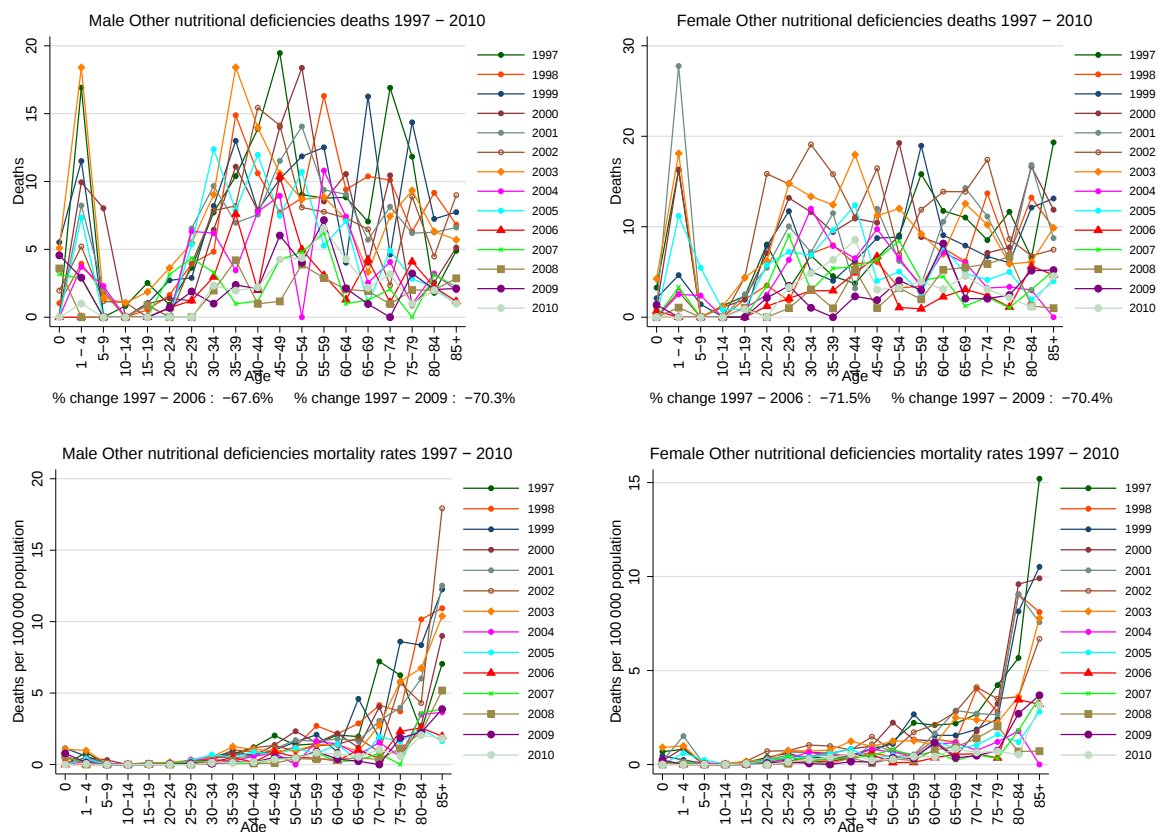
## A.21 Other nutritional deficiencies

**Table A.41: Other nutritional deficiencies deaths 1997 to 2004**

|         | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---------|------|------|------|------|------|------|------|------|
| Males   | 145  | 128  | 142  | 121  | 119  | 113  | 146  | 70   |
| Females | 150  | 117  | 135  | 165  | 158  | 187  | 177  | 83   |

**Table A.42: Other nutritional deficiencies deaths 2005 to 2010 and overall)**

|         | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 97-10 |
|---------|------|------|------|------|------|------|-------|
| Males   | 87   | 47   | 44   | 31   | 43   | 36   | 1,274 |
| Females | 100  | 43   | 66   | 44   | 44   | 53   | 1,521 |



**Figure A.21: Number of Other nutritional deficiencies deaths and mortality rates by sex, 1997 - 2010**

## B Estimation of misattributed AIDS deaths

Dorrington<sup>1</sup> proposed the following cause-age-time model to partition the change in cause-specific mortality into that due to non-AIDS, and misattributed AIDS mortality, as a function of HIV prevalence:

$$\frac{OD(h, x, t)}{c(x, t)} \exp(-r(x, t)) = a(x, h) \exp(-\gamma \cdot t) + b(x, h) p(t) \quad (1)$$

where

$x$  represents age groups 0, 1 to 4 last birthday, and  $x$  to  $x + 4$  last birthday for  $x > 4$ ,

$OD(h, x, t)$  represents the observed deaths for cause  $h$  in age group  $x$  during calendar year  $t$  which contain misclassified HIV/AIDS deaths,

$c(x, t)$  represents the estimated completeness of reporting of deaths in age group  $x$  in calendar year  $t$ ,

$r(x, t)$  represents the cumulative growth rate of the population in age group  $x$  over  $t$  years (to the middle of calendar year  $t$ ),

$a(x, h)$  represents the number of cause  $h$  non-AIDS deaths of those in age group  $x$  when  $p(t) = 0$ ,

$\gamma$  represents the constant annual rate of improvement in the non-AIDS mortality over time,

$b(x, h)$  represents a factor relating the number of AIDS deaths aged  $x$  misclassified as cause  $h$  to the prevalence at time  $t$  as measured by  $p(t)$ , and  $p(t)$  represents the prevalence of women attending antenatal clinics 1, 3 and 5 year prior to year  $t$ , applicable to age group 0, 1-4, and 5+, respectively.

The number of AIDS deaths misclassified as cause  $h$  is then given by:

$$\frac{OD(h, x, t)}{c(x, t)} - a(x, h) \exp(r(x, t) - \gamma \cdot t) \quad (2)$$

This model, however, is over-parameterised making it difficult to distinguish the trend in the number of non-AIDS deaths over time from that of the (usually more dominant) trend in the number of AIDS deaths. In addition, making deaths due to AIDS mortality a linear function of  $p(t)$  means for some causes  $a(x, h)$  may be implausibly low or even negative. We therefore reformulated the model as follows:

First, in order to determine a trend in non-AIDS or background mortality the following model was fitted to national mortality rates adjusted for incomplete reporting in the age group 75-84 on the assumption that AIDS deaths are negligible in this age range.

$$\frac{OD(h, x, t)}{c(x, t)N(x, t)} = \mu_h + \gamma_h \ln(1 + t) \quad (3)$$

where

$t$  is measured in years and is such that  $t = 1$  when  $p(t)$  is first greater than zero, and

$\gamma_h$  is set to zero if not statistically significant at the  $p = 0.01$  level.

Next, the following model is fitted to data for age groups  $x$ , for ages 5 to 74 last birthday, for all causes with misclassified AIDS deaths combined, for years 1997 to 2003.

$$\frac{OD(x, t)}{c(x, t)N(x, t)} = \alpha(x) \exp(\beta(x)p(t)) \quad (4)$$

<sup>1</sup>Dorrington RE. Ins and Outs: Estimation of the HIV incidence on all women from the change in antenatal prevalence and the number of AIDS deaths from the CoD vital registration data. University of Cape Town Actuarial and Demography seminar, Cape Town. Sep 2010.

where

$a(x)$  represents the non-AIDS mortality rate at the time when  $p(t)$  was last 0, for all causes with misclassified AIDS deaths combined,

$\beta(x)$  represents a factor relating the number of misclassified AIDS deaths aged  $x$  to the prevalence at time  $t$  as measured by  $p(t)$  assuming an exponential relationship (to avoid the risk of implausibly low estimates of  $a(x)$ ).

For children aged 0 and 1 – 4 last birthday, a linear function fitted the data better, namely:

$$\frac{OD(x, t)}{c(x, t)N(x, t)} = \alpha(x) + \beta(x)p(t) \quad (5)$$

Finally AIDS deaths misclassified as cause  $h$  are estimated as follows:

$$\frac{OD(h, x, t)}{c(x, t)} - \alpha(x, h) \left( 1 + \frac{\gamma_h}{\mu_h} \ln(1 + t) \right) N(x, t) \quad (6)$$

where

$$\alpha(x, h) = \alpha(x) \times \frac{OD(h, x, 1997)}{OD(x, 1997)} \quad (7)$$

based on the assumptions that the proportions of deaths by cause of those potentially containing misclassified deaths remains fairly constant between the year when  $p(t)$  was last 0 and 1997, and that the misclassified AIDS deaths in 1997 are negligible and that whatever misclassified deaths there are, are distributed in proportion to the non-AIDS deaths by cause in that year.

## C HIV prevalence trend

Figure C.1 shows the trend in the HIV prevalence based on the antenatal surveys before and after smoothing,

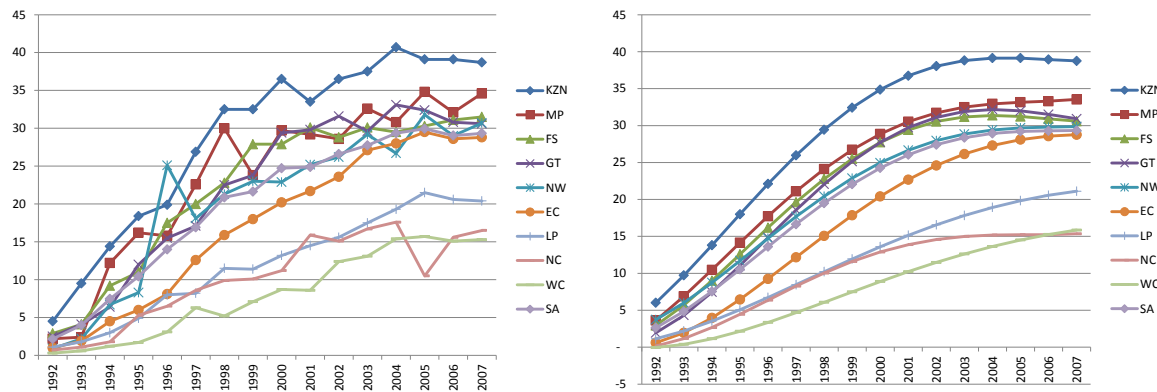


Figure C.1: Raw and smoothed HIV prevalence estimates by province, 1997-2010

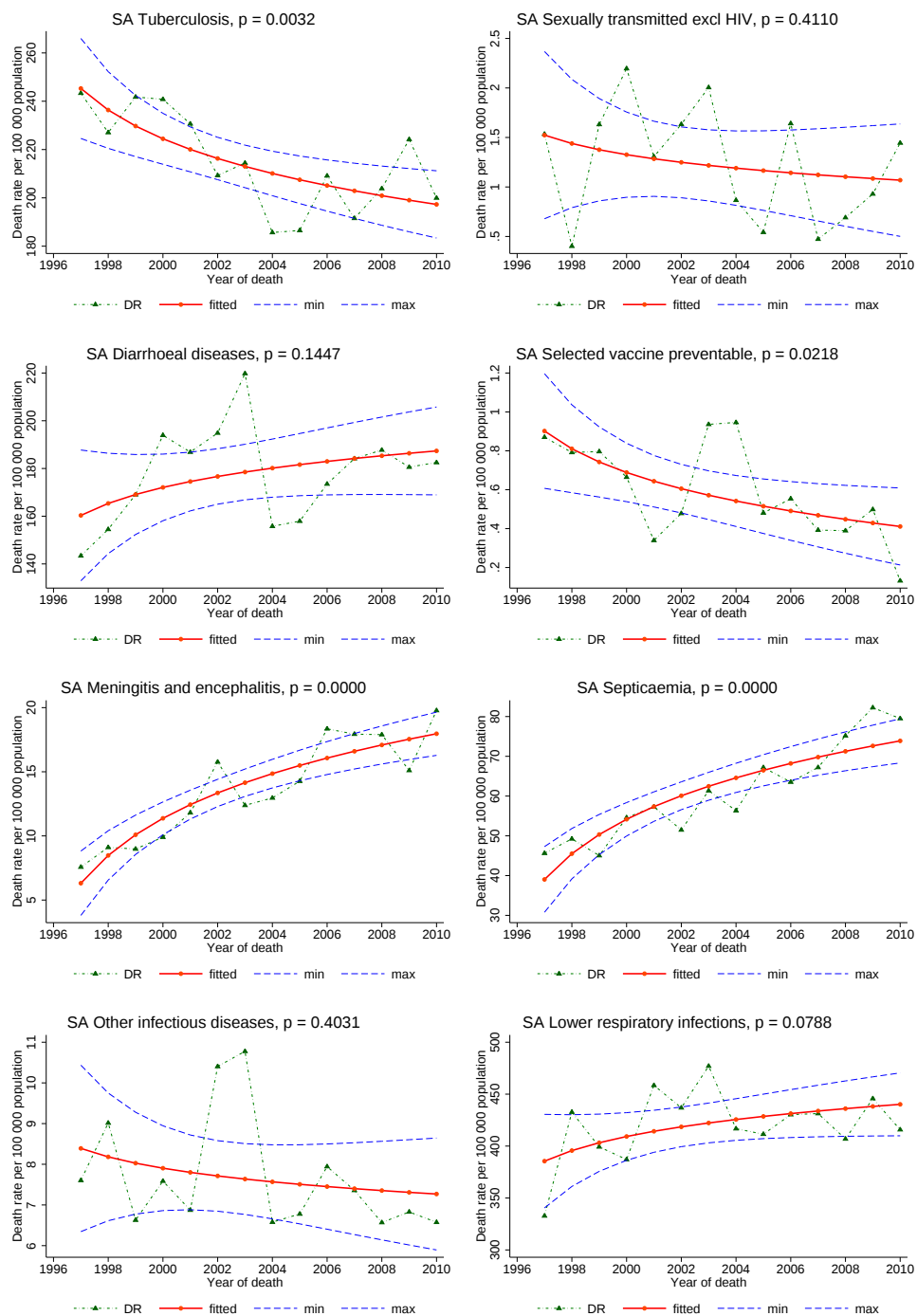
## D Background mortality ( $\gamma_h$ ) estimates

Table D.1 as well as figures D.1 and D.2 show the estimated national death rate per 100,000 for persons aged 75-84 years for the 18 source causes over the period 1997-2010. The regression fitted to the log transform of the period is shown together with the 95% confidence intervals and p-value for the statistical significance of the trend coefficient. It should be noted that some graphs have a non-zero axis value so as to demonstrate the trend and variability more clearly.

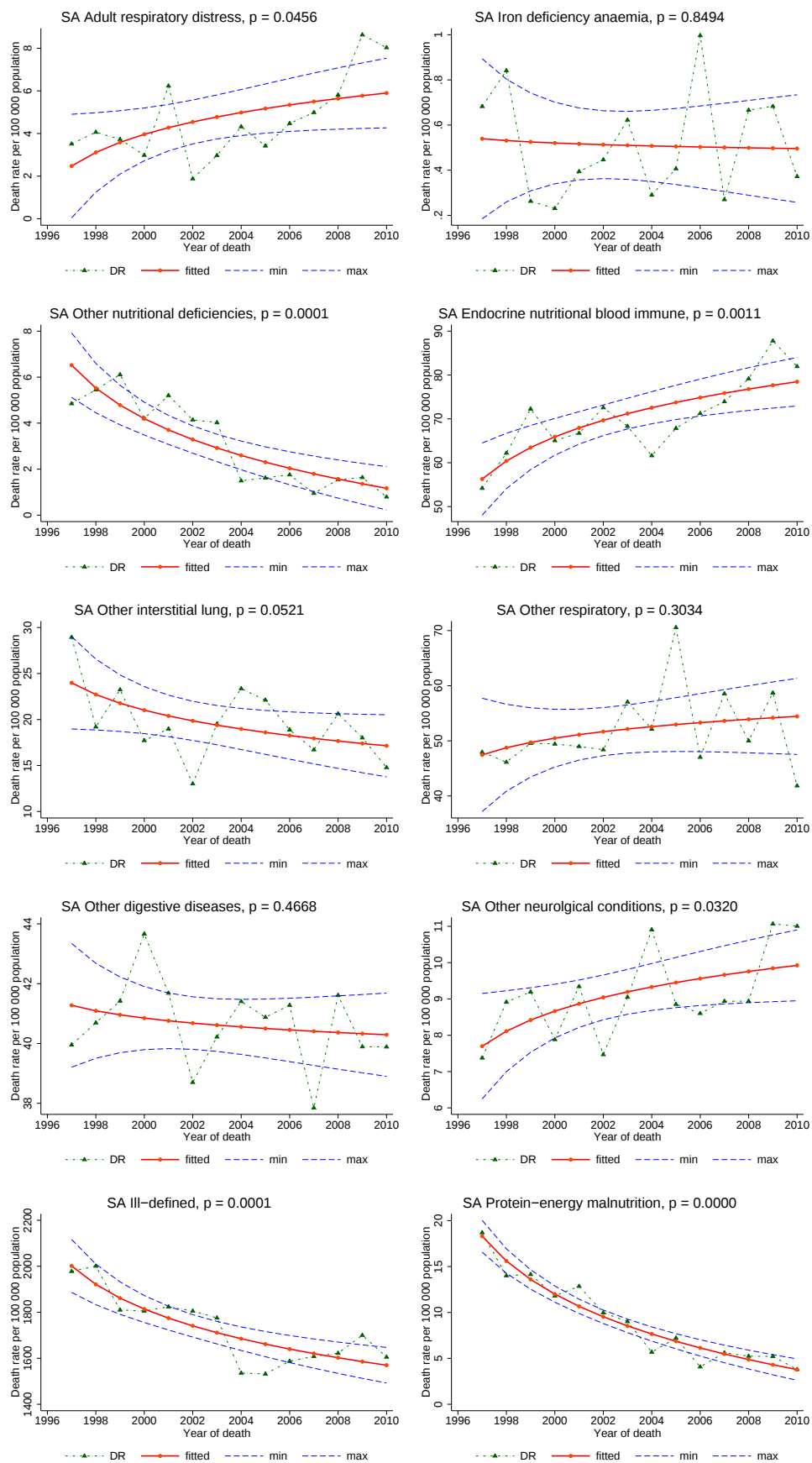
**Table D.1: Regression coefficients for the trend in 75-84 year age group for causes of death identified as containing misattributed AIDS deaths**

| Cause $h$                              | Intercept<br>( $\mu_h$ ) | Rate of<br>change<br>( $\gamma_h$ ) | $p$ -value |
|----------------------------------------|--------------------------|-------------------------------------|------------|
| 1. Tuberculosis                        | 268.63                   | -26.06                              | 0.0032*    |
| 2. Sexually transmitted excl. HIV      | 1.74                     | -0.25                               | 0.4110     |
| 3. Diarrhoeal diseases                 | 147.19                   | 14.67                               | 0.1447     |
| 4. Selected vaccine preventable        | 1.14                     | -0.27                               | 0.0218     |
| 5. Meningitis and encephalitis         | 0.65                     | 6.33                                | 0.0000*    |
| 6. Septicaemia                         | 22.09                    | 18.92                               | 0.0000*    |
| 7. Other infectious diseases           | 8.94                     | -0.61                               | 0.4031     |
| 8. Lower respiratory infections        | 358.91                   | 29.69                               | 0.0788     |
| 9. Adult respiratory distress          | 0.81                     | 1.86                                | 0.0456     |
| 10. Iron deficiency anaemia            | 0.56                     | -0.02                               | 0.8494     |
| 11. Other nutritional deficiencies     | 9.12                     | -2.91                               | 0.0001*    |
| 12. Endocrine nutritional blood immune | 45.48                    | 12.05                               | 0.0011*    |
| 13. Other interstitial lung            | 27.32                    | -3.72                               | 0.0521     |
| 14. Other respiratory                  | 44.05                    | 3.79                                | 0.3034     |
| 15. Other digestive diseases           | 41.76                    | -0.53                               | 0.4668     |
| 16. Other neurological conditions      | 6.62                     | 1.21                                | 0.0320     |
| 17. Ill-defined natural                | 2211.45                  | -234.38                             | 0.0001*    |
| 18. Protein-energy malnutrition        | 25.38                    | -7.89                               | 0.0000*    |
| 19. Maternal conditions                | na                       | na                                  | na         |

\* Statistically significant at the 1% level of significance.



**Figure D.1: Death rates (per 100,000 population) for persons 75-84 years and regression trend for AIDS source conditions, 1997-2010**



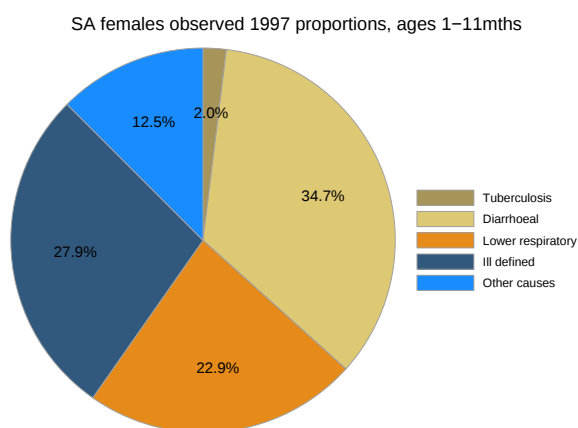
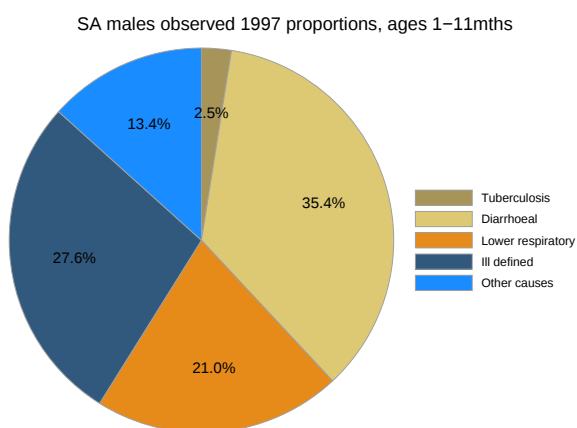
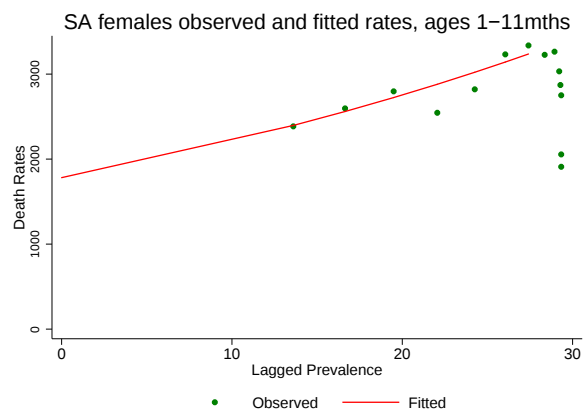
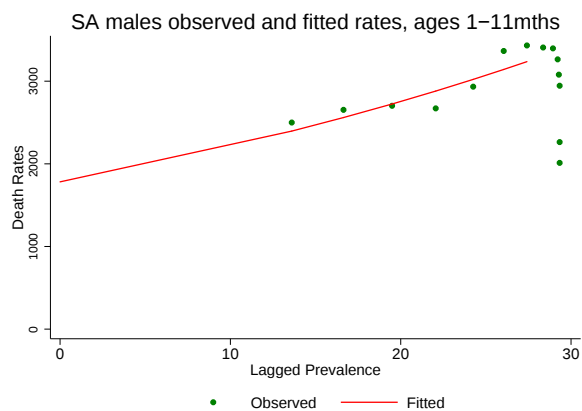
**Figure D.2: Death rates (per 100,000 population) for persons 75-84 years and regression trend for AIDS source conditions, 1997-2010**

## **E HIV estimation by age and sex, 1997 to 2010**

The national estimation of HIV/AIDS deaths is shown for each age group in section D.1-D.16. The first pair of graphs show the estimated male and female death rates (per 100 000 population) from the combined AIDS source conditions including HIV/AIDS and the HIV pseudonyms, as well as the fitted regression on the lagged HIV prevalence for the period 1997-2003. The intercept of the regression determines the level of the mortality rate prior to the HIV epidemic. The second pair of graphs show the proportional composition of the source conditions for males and females in 1997, which is assumed to be the composition of the combined source conditions prior to the HIV epidemic. Tuberculosis, diarrhoeal diseases, lower respiratory diseases and ill-defined naturals accounted for the highest proportions and are shown separately. The remaining 14 conditions are included in "Other causes". The last set of graphs shows the trend in the estimated death rate (per 100 000 population) from tuberculosis, diarrhoeal diseases, lower respiratory diseases and ill-defined naturals before and after adjustment.

## E.1 Ages 1-11mths

Regression on aggregate of source causes by sex:

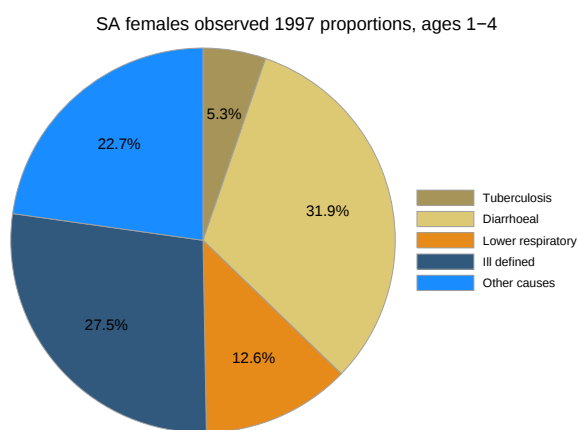
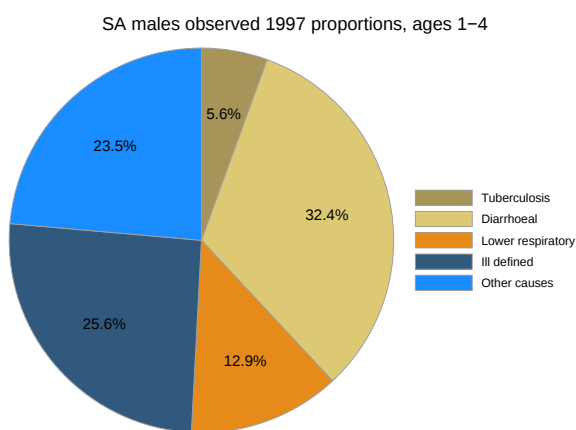
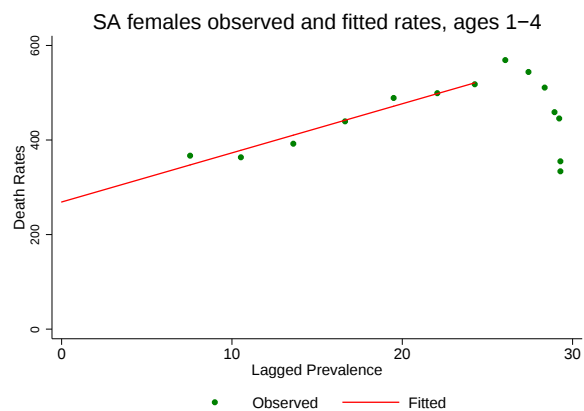
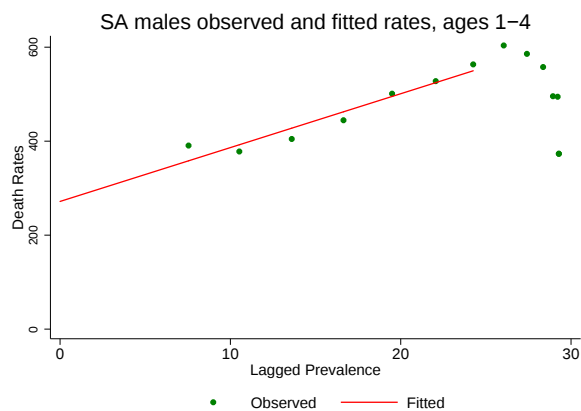


Application of background mortality and estimated 1997 proportion by cause and sex:

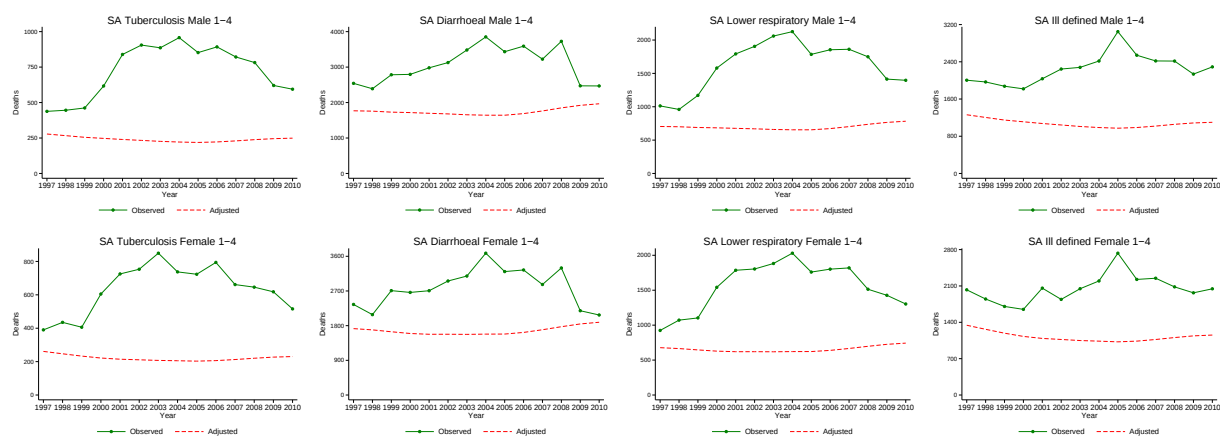


## E.2 Ages 1-4

Regression on aggregate of source causes by sex:

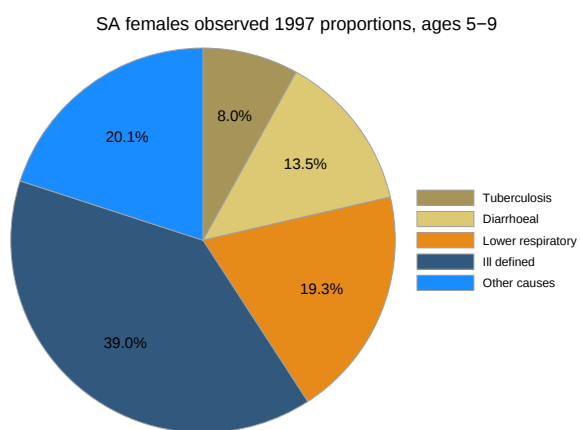
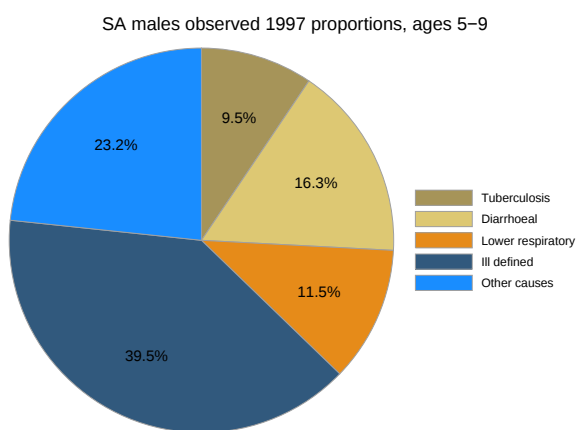
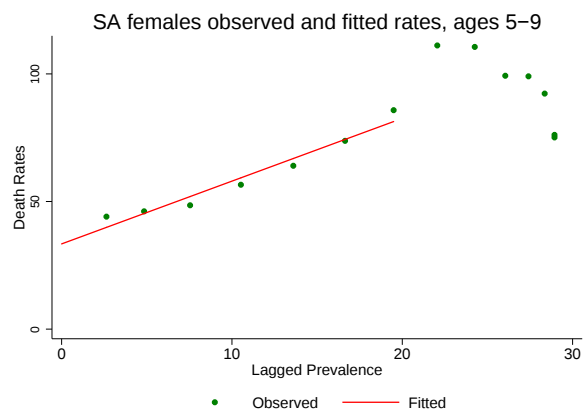
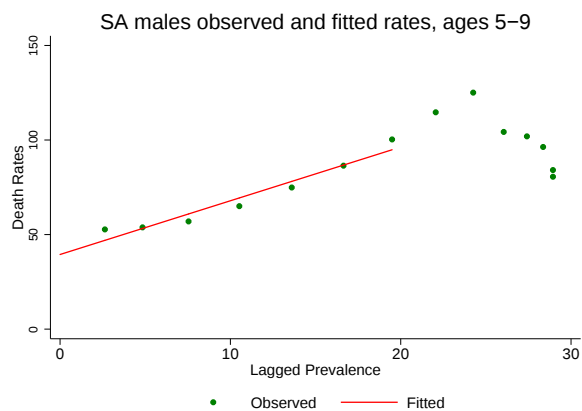


Application of background mortality and estimated 1997 proportion by cause and sex:

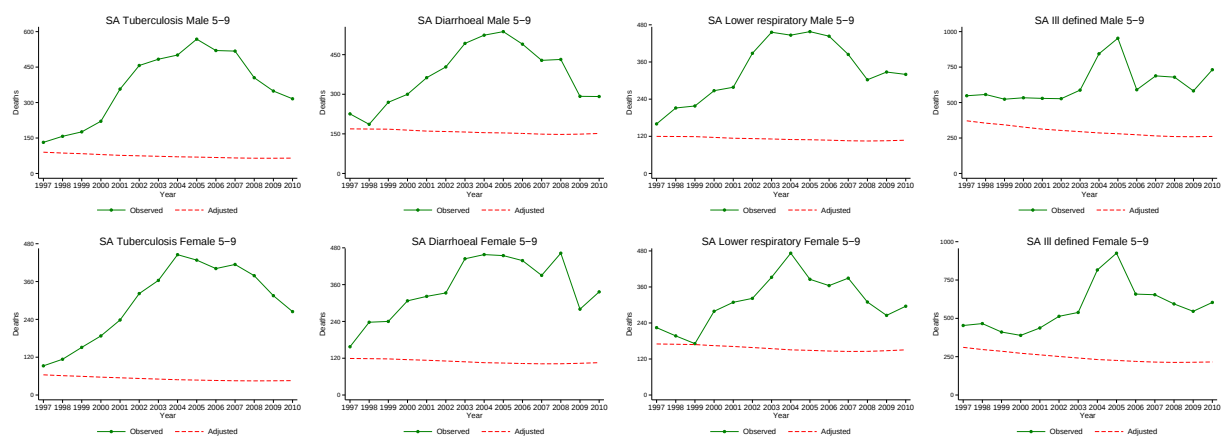


## E.3 Ages 5-9

Regression on aggregate of source causes by sex:

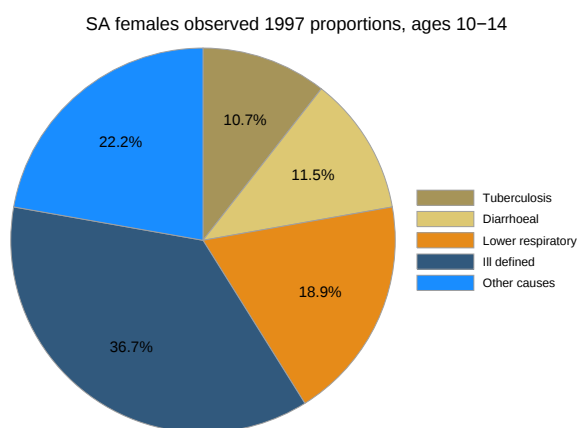
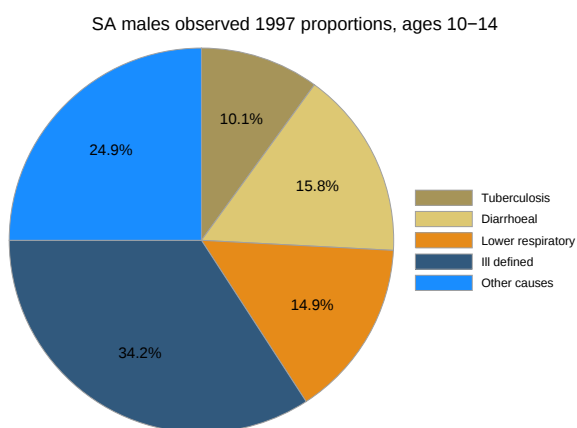
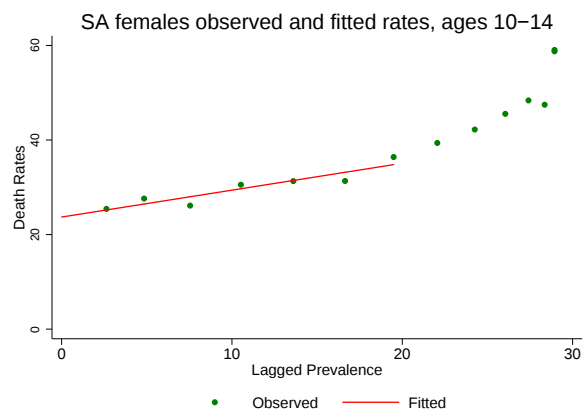
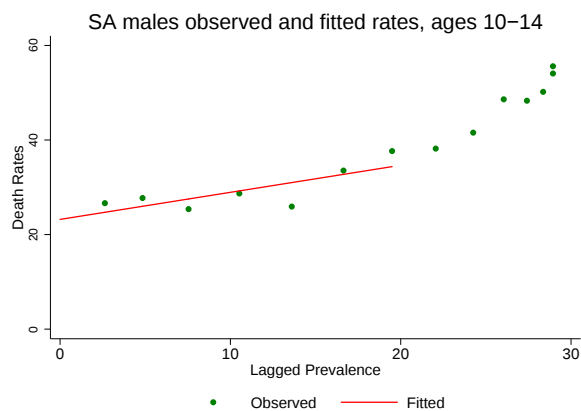


Application of background mortality and estimated 1997 proportion by cause and sex:



## E.4 Ages 10-14

Regression on aggregate of source causes by sex:

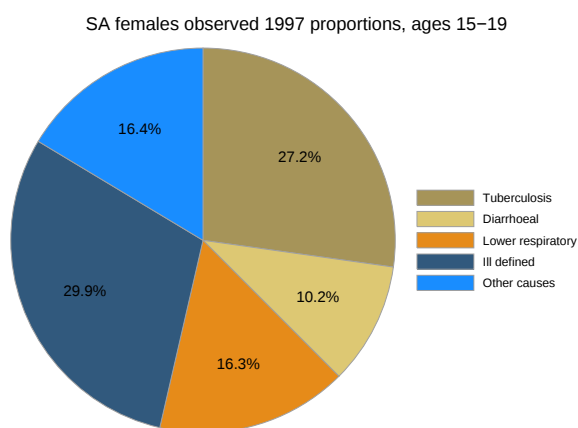
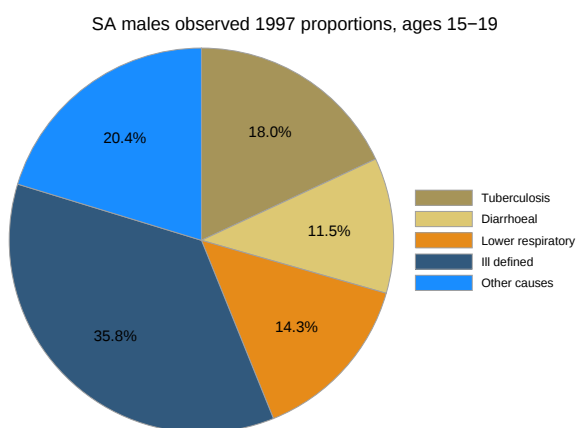
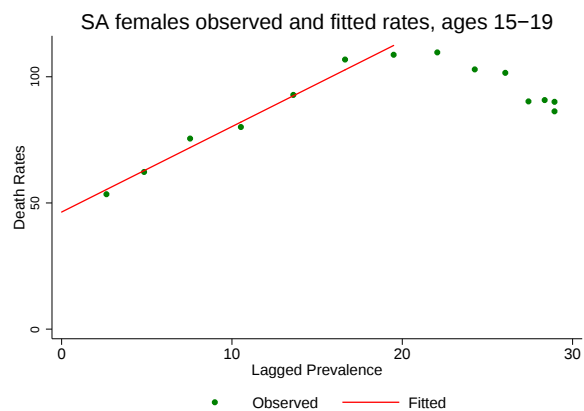
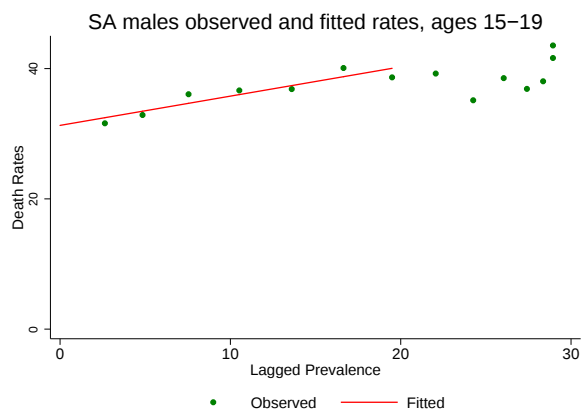


Application of background mortality and estimated 1997 proportion by cause and sex:

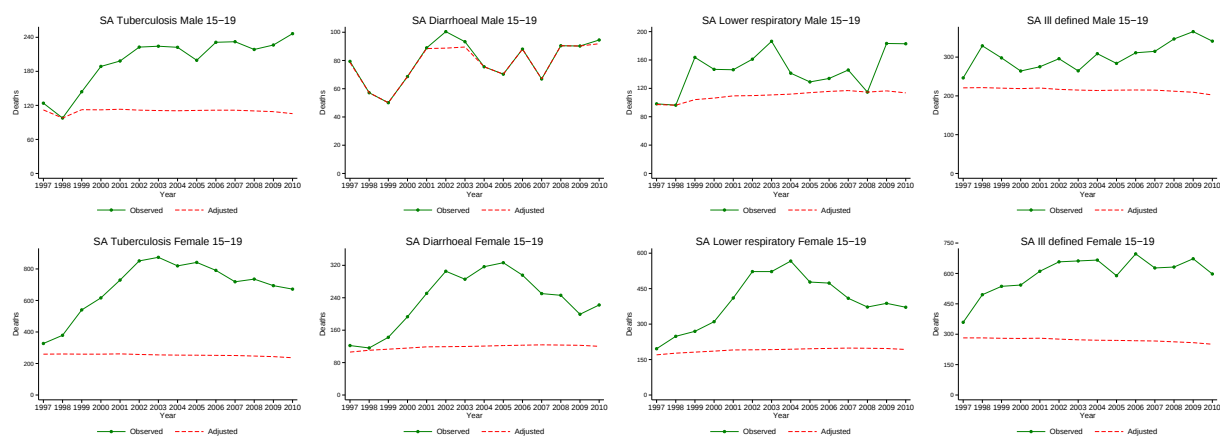


## E.5 Ages 15-19

Regression on aggregate of source causes by sex:

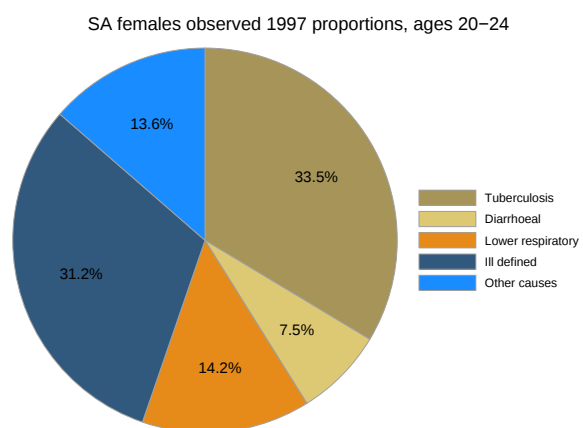
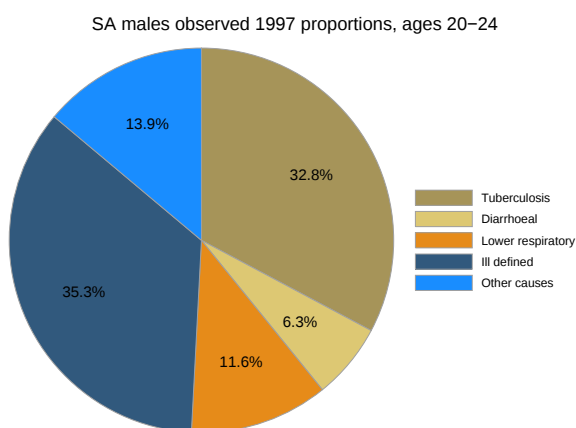
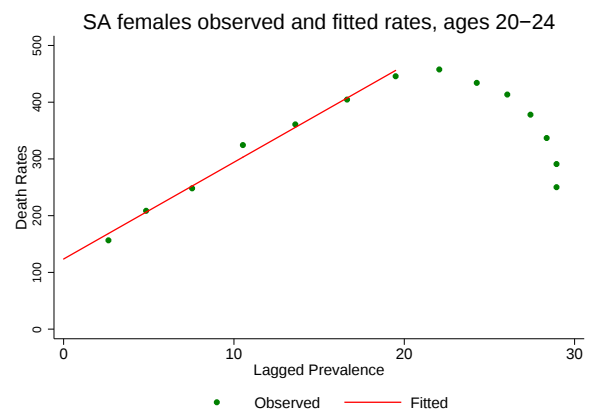
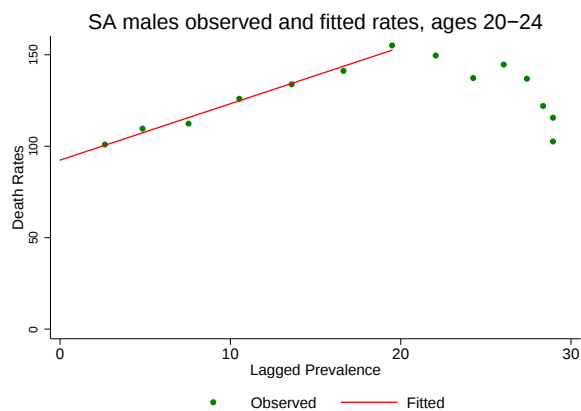


Application of background mortality and estimated 1997 proportion by cause and sex:

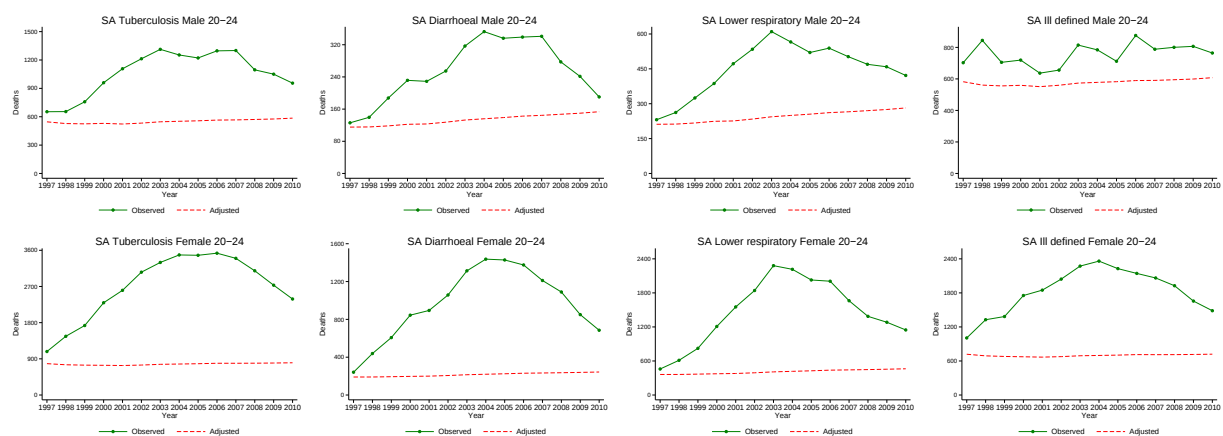


## E.6 Ages 20-24

Regression on aggregate of source causes by sex:

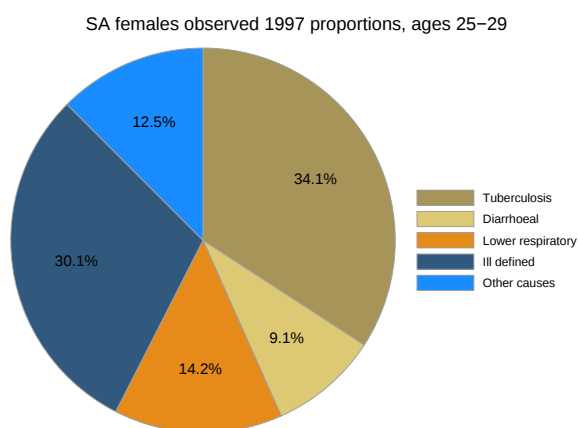
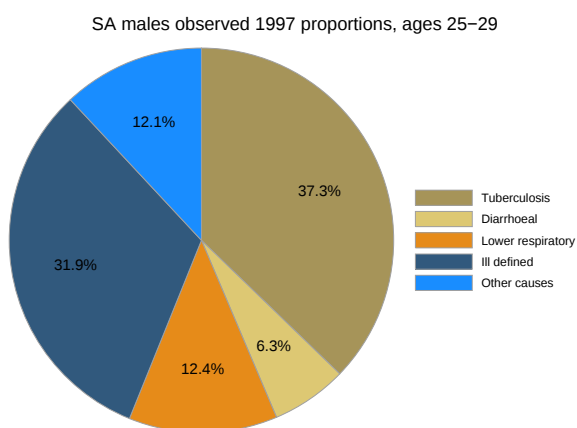
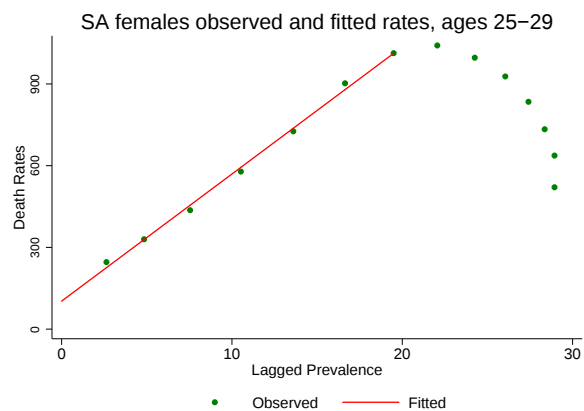
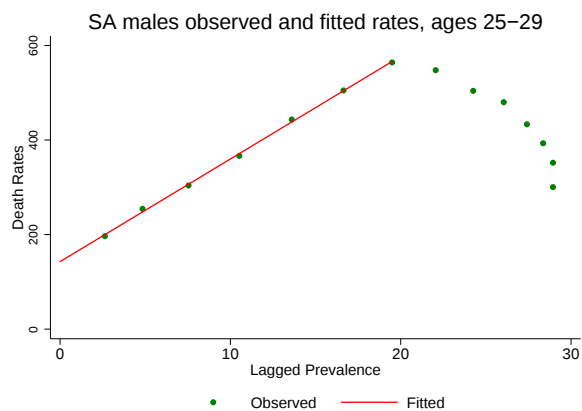


Application of background mortality and estimated 1997 proportion by cause and sex:

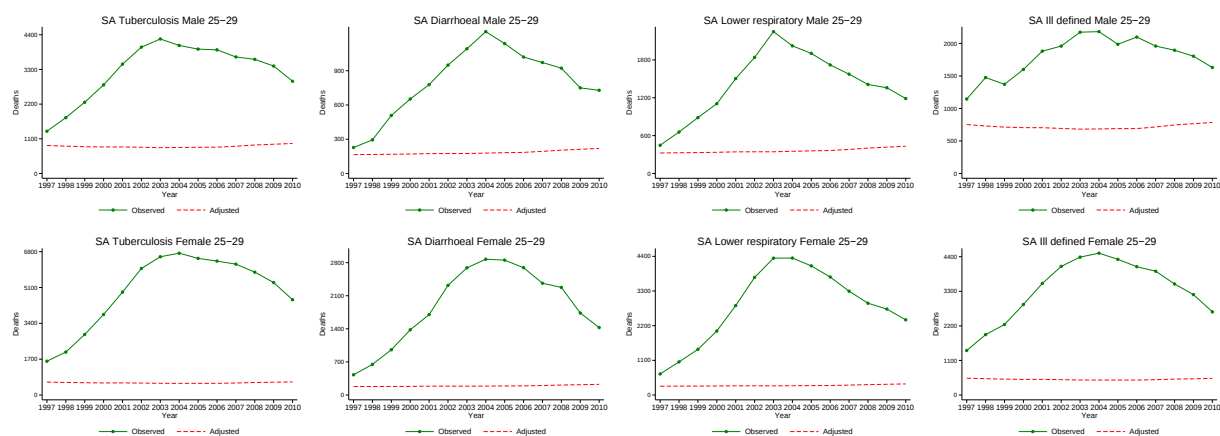


## E.7 Ages 25-29

Regression on aggregate of source causes by sex:

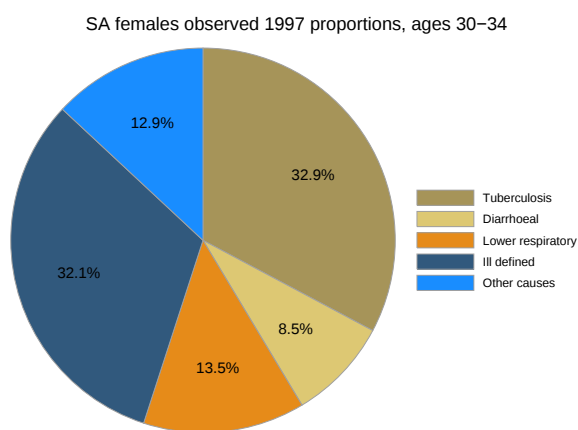
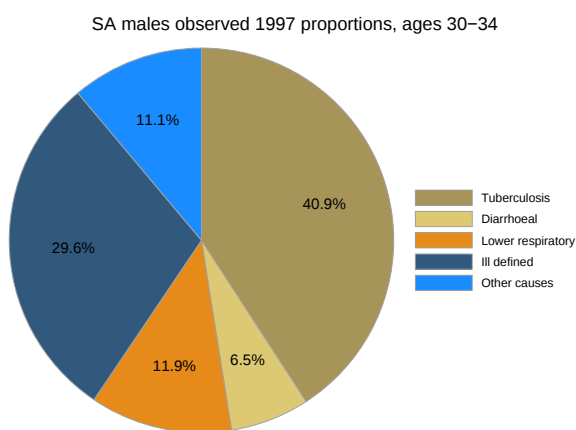
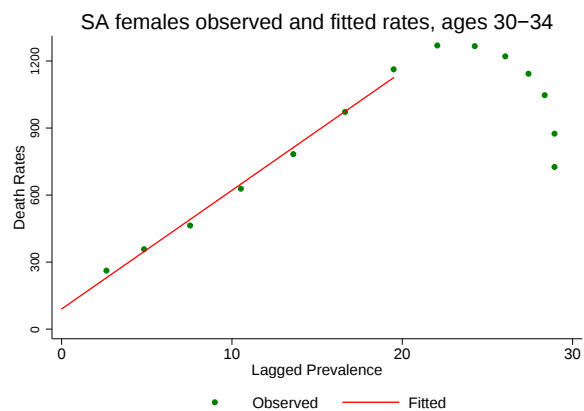
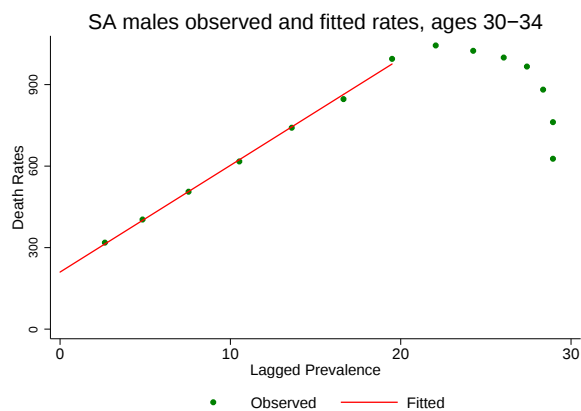


Application of background mortality and estimated 1997 proportion by cause and sex:

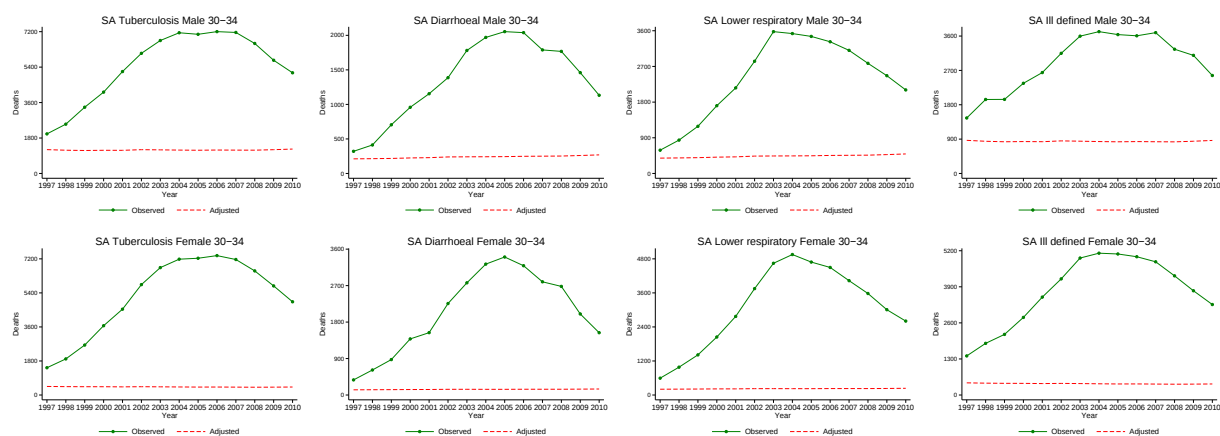


## E.8 Ages 30-34

Regression on aggregate of source causes by sex:

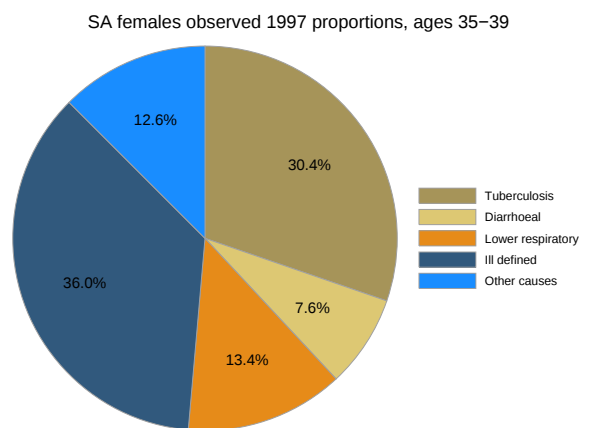
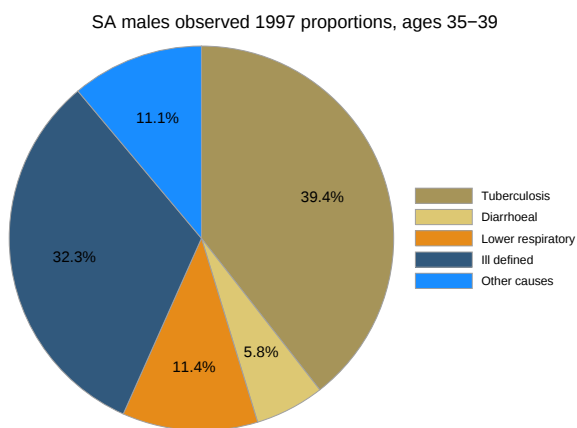
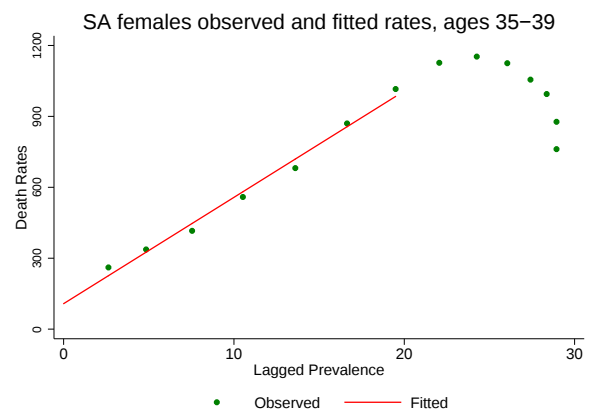
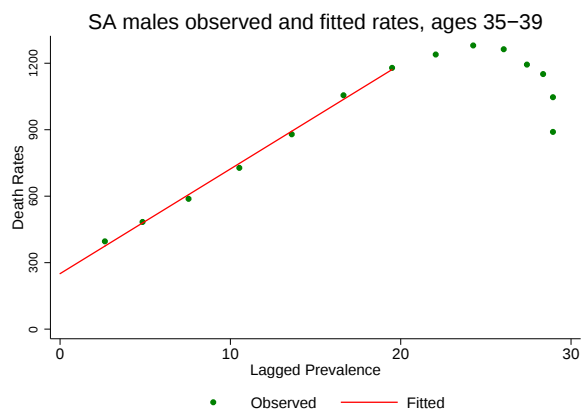


Application of background mortality and estimated 1997 proportion by cause and sex:

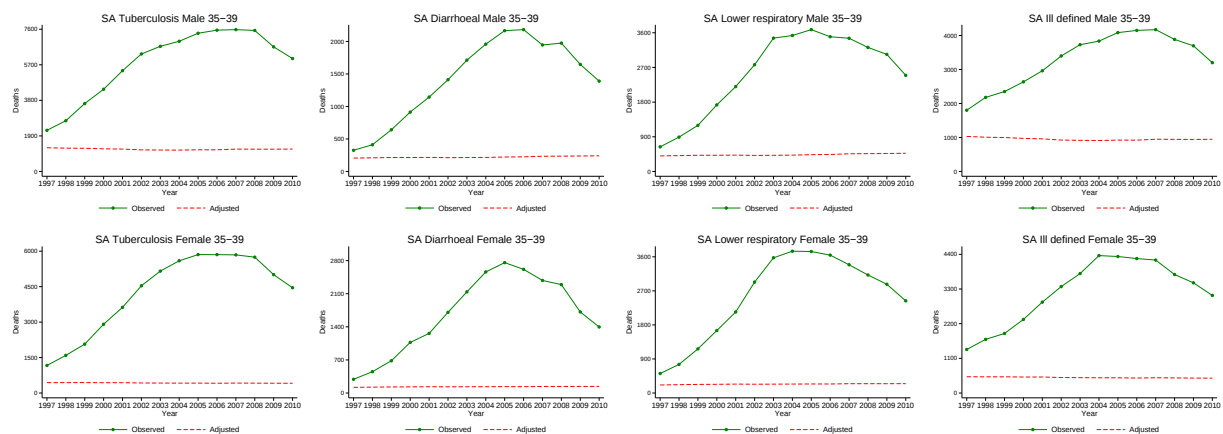


## E.9 Ages 35-39

Regression on aggregate of source causes by sex:

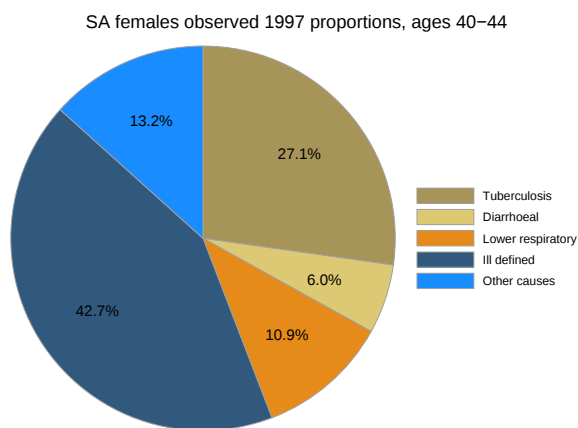
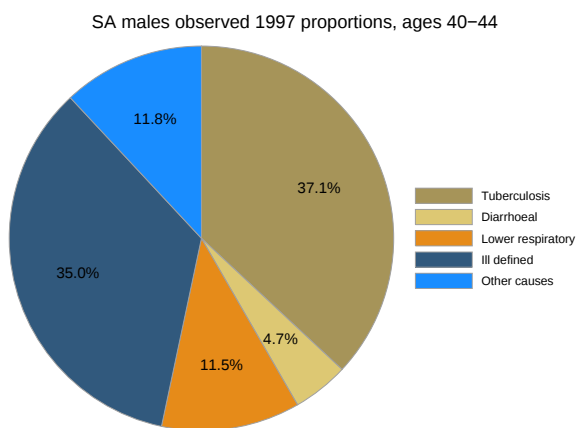
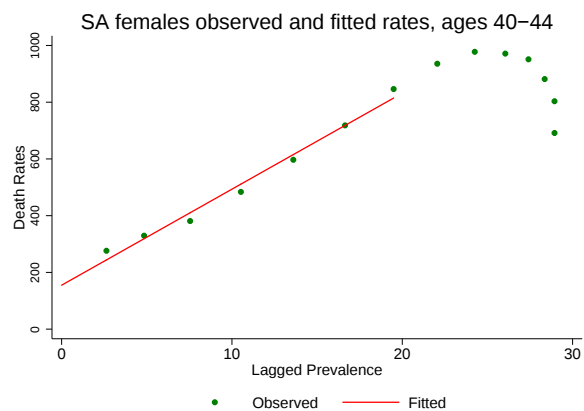
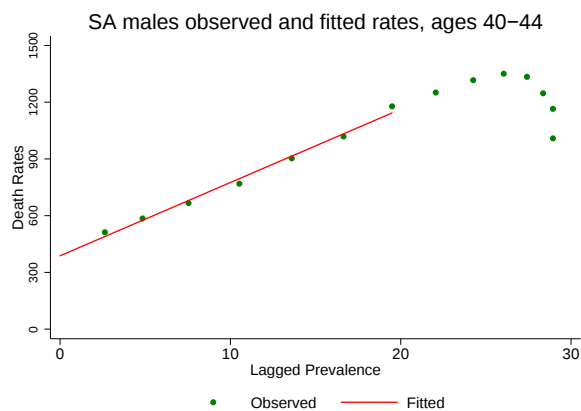


Application of background mortality and estimated 1997 proportion by cause and sex:

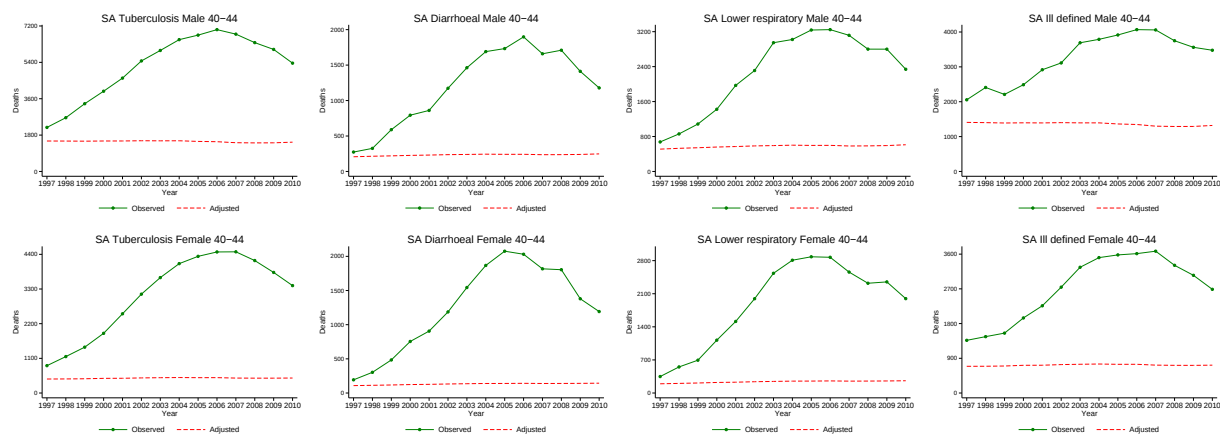


## E.10 Ages 40-44

Regression on aggregate of source causes by sex:

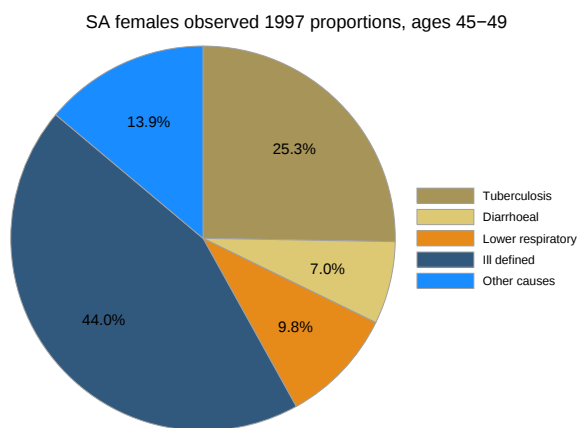
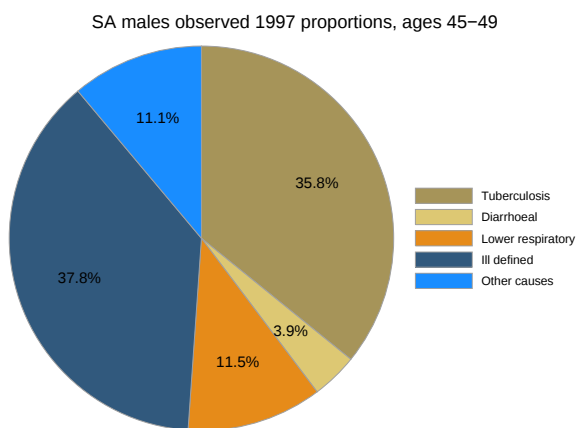
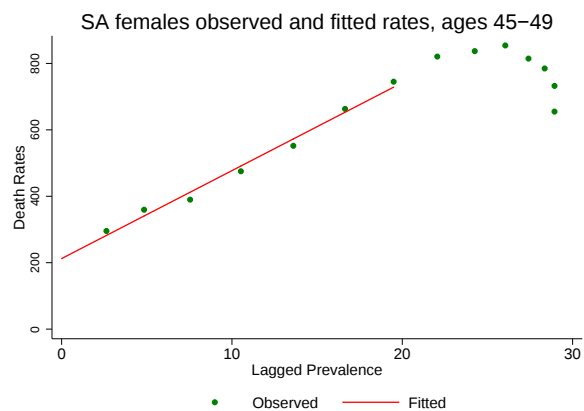
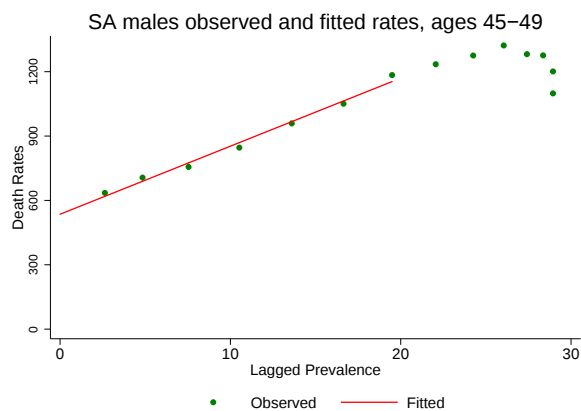


Application of background mortality and estimated 1997 proportion by cause and sex:

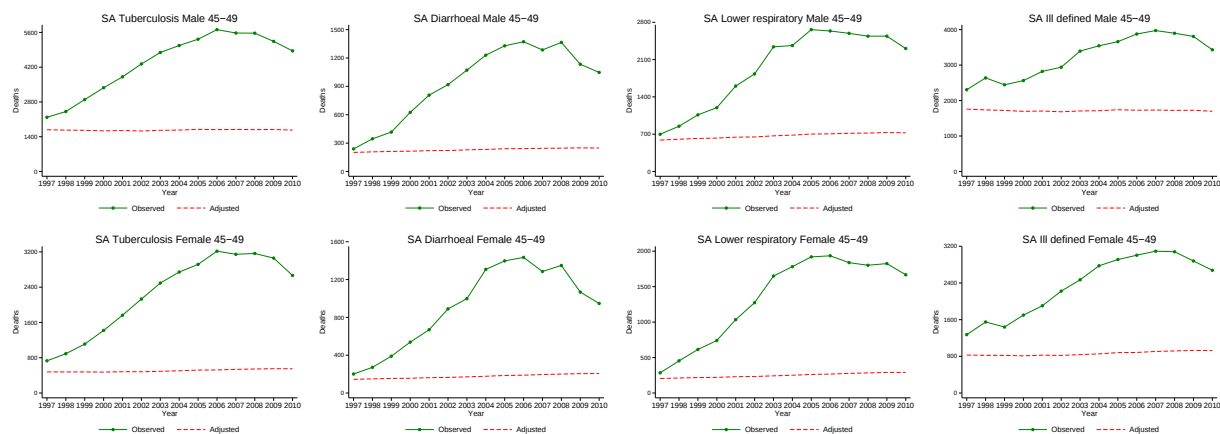


## E.11 Ages 45-49

Regression on aggregate of source causes by sex:

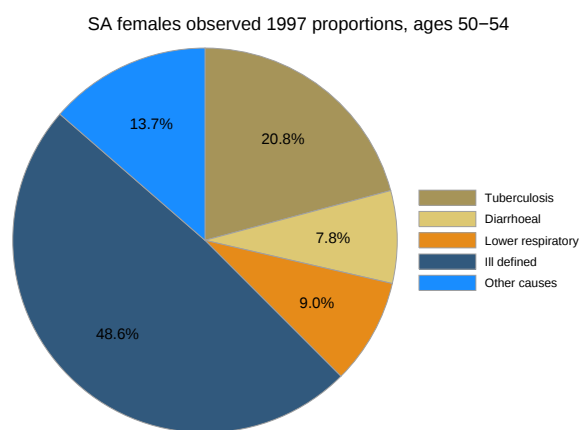
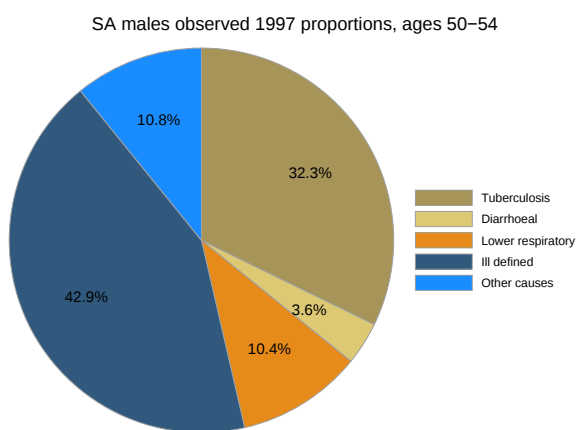
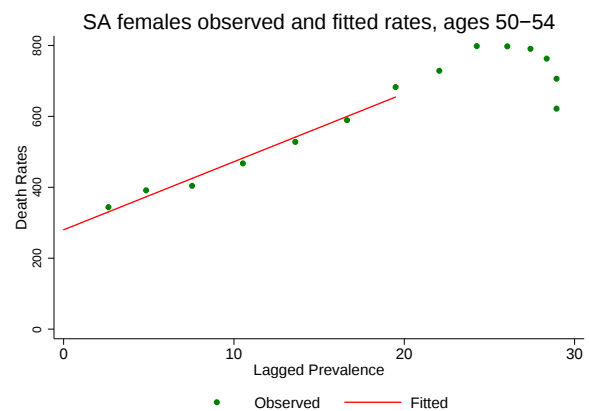
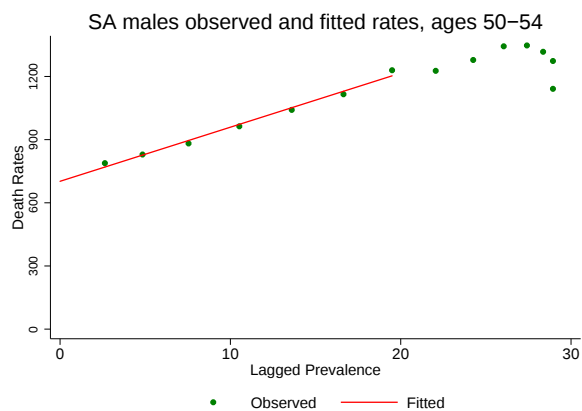


Application of background mortality and estimated 1997 proportion by cause and sex:

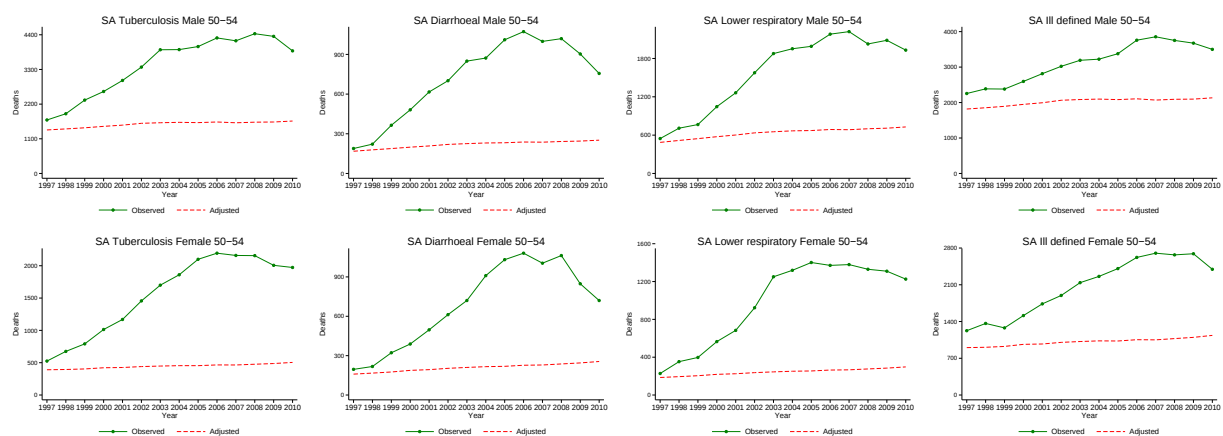


## E.12 Ages 50-54

Regression on aggregate of source causes by sex:

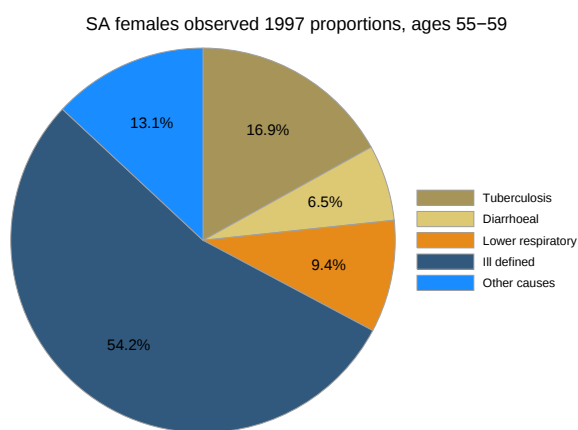
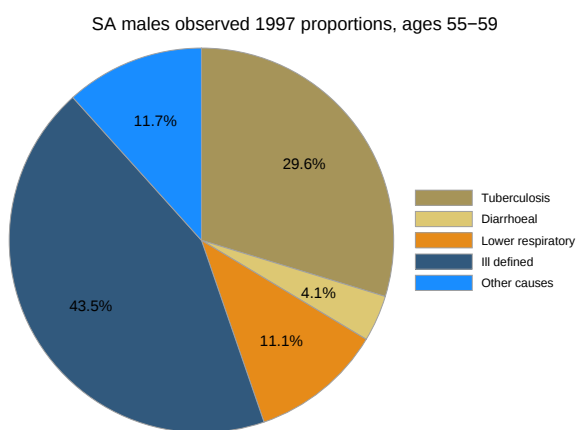
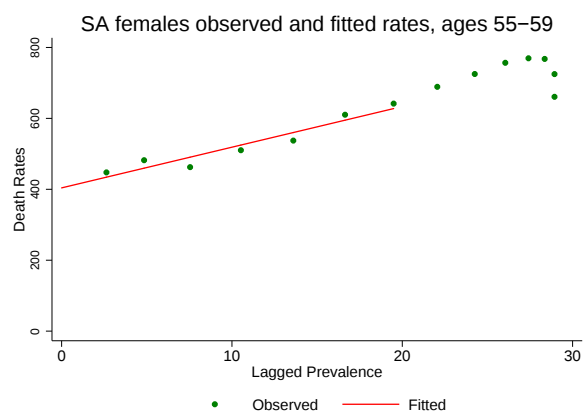
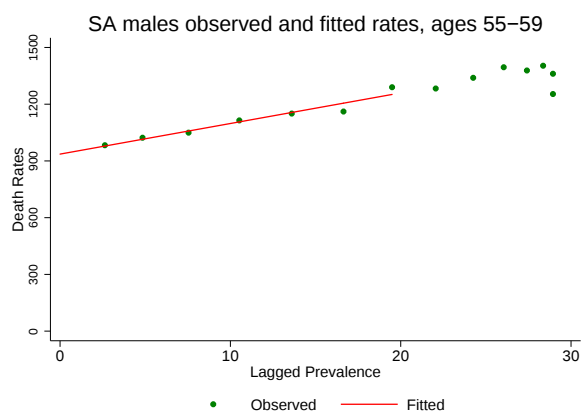


Application of background mortality and estimated 1997 proportion by cause and sex:

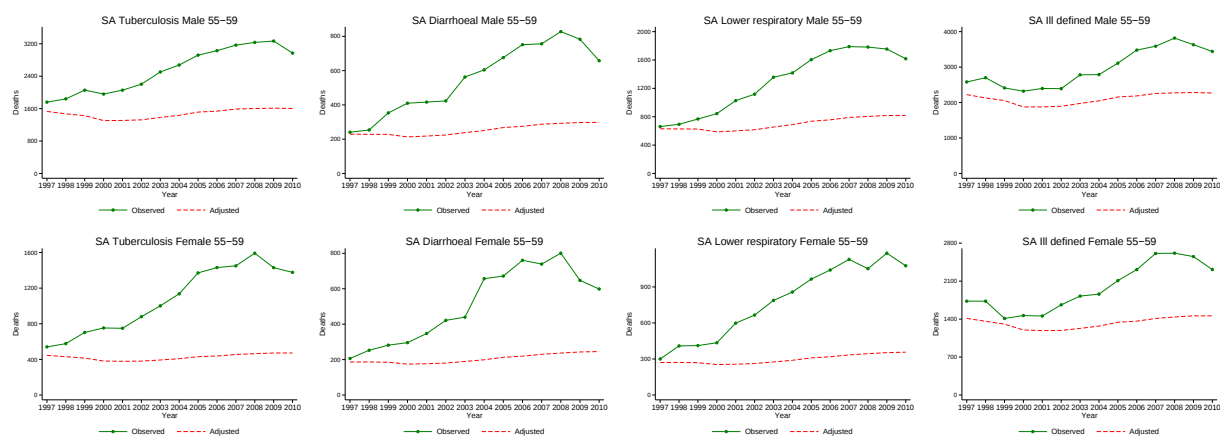


## E.13 Ages 55-59

Regression on aggregate of source causes by sex:

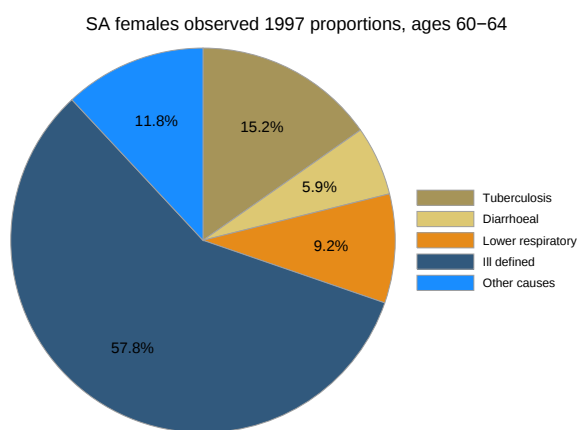
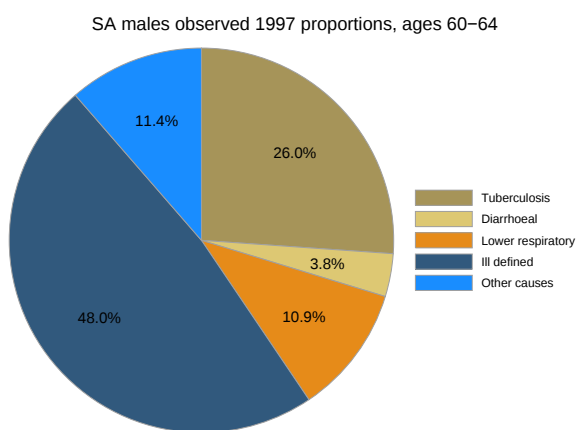
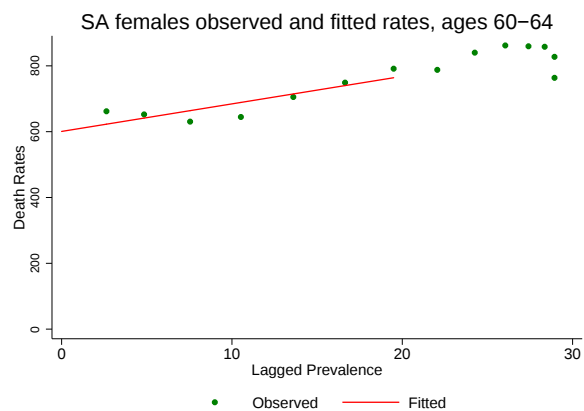
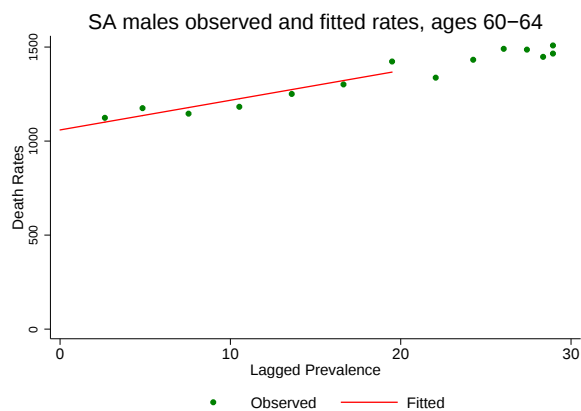


Application of background mortality and estimated 1997 proportion by cause and sex:

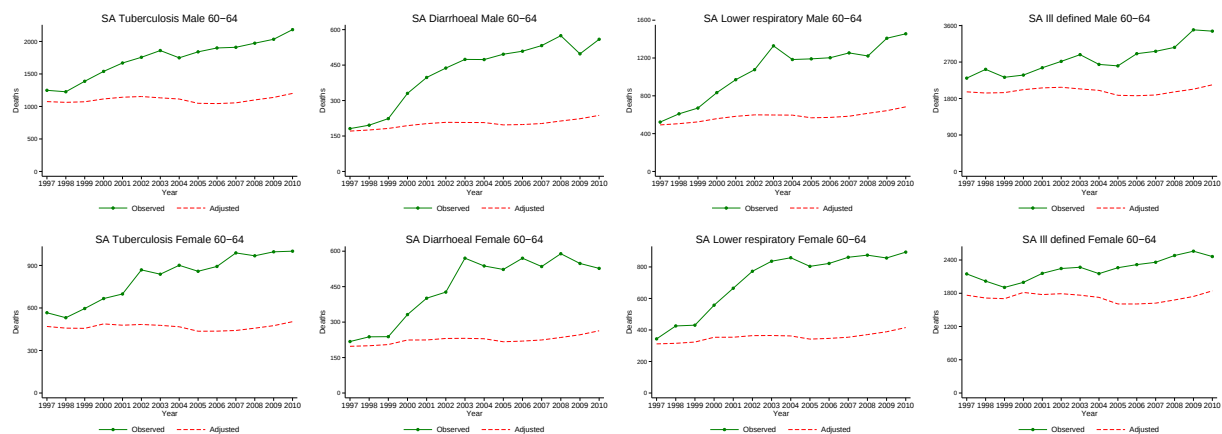


## E.14 Ages 60-64

Regression on aggregate of source causes by sex:

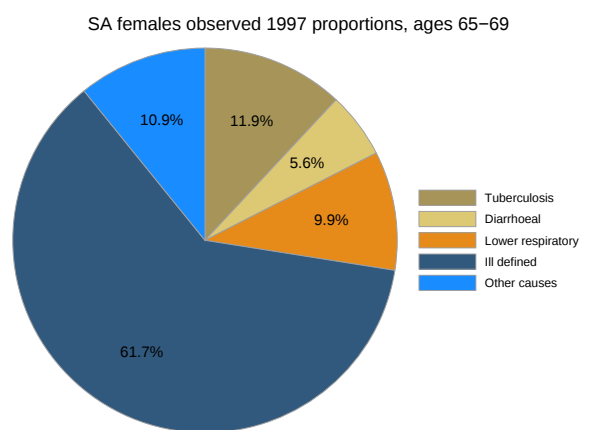
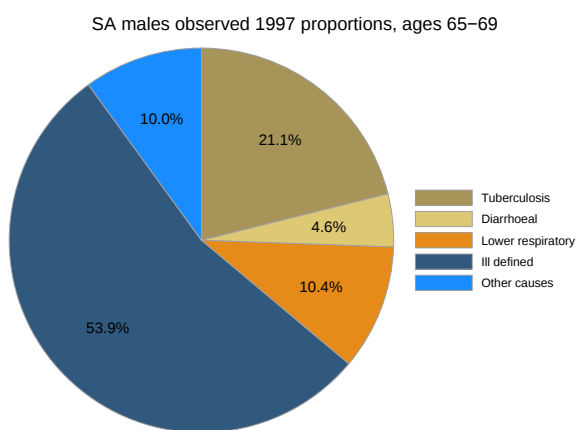
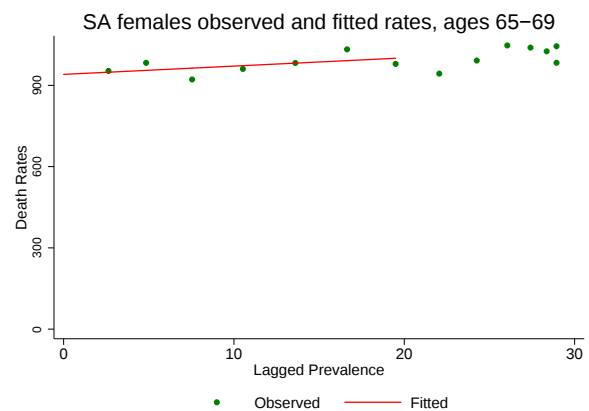
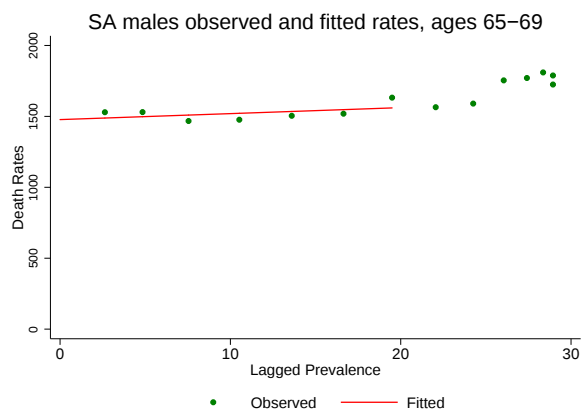


Application of background mortality and estimated 1997 proportion by cause and sex:



## E.15 Ages 65-69

Regression on aggregate of source causes by sex:

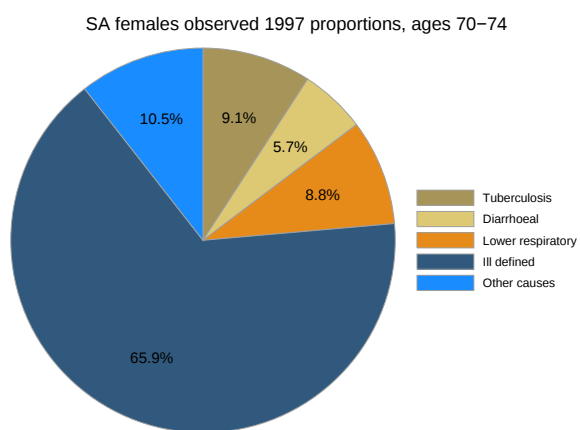
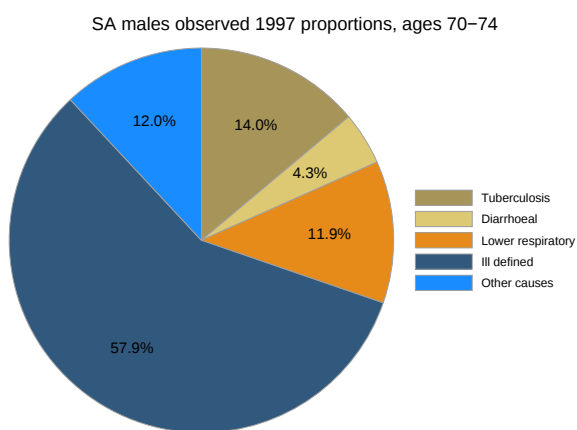
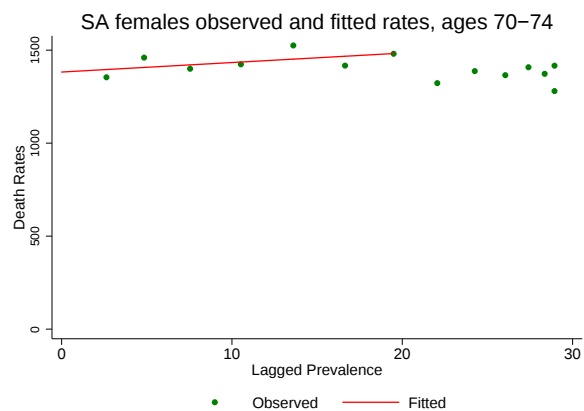
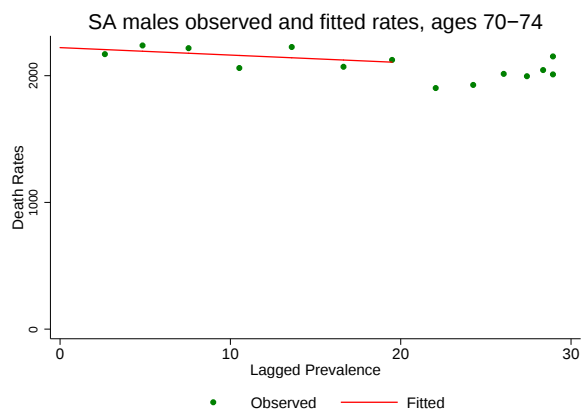


Application of background mortality and estimated 1997 proportion by cause and sex:

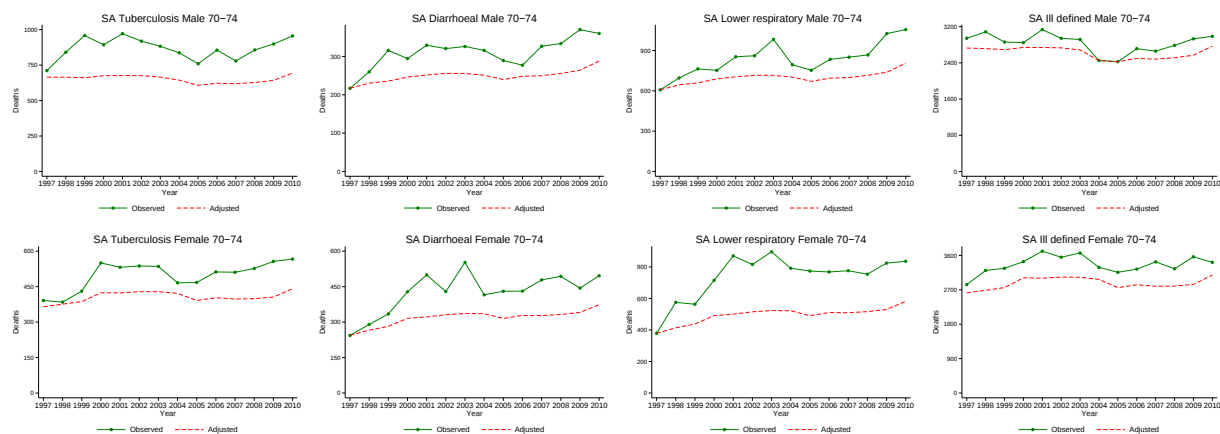


## E.16 Ages 70-74

Regression on aggregate of source causes by sex:



Application of background mortality and estimated 1997 proportion by cause and sex:



## **F Estimated AIDS deaths by source condition, 1997 - 2010**

Tables [F.1](#) - [F.15](#) show the number of estimated deaths for the source conditions prior to the subtraction of the mis-attributed deaths for males, females and persons for each year. This is followed by the number of deaths that are estimated to be mis-attributed AIDS deaths and the proportion of the total deaths from the source condition that is mis-attributed AIDS deaths. The last column shows that proportional composition of the total estimated AIDS deaths, according to source. Table [F.15](#) shows the breakdown of the estimated AIDS deaths for the combined period 1997 - 2010.

**Table F.1: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 1997**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 4,097  |                        |                              | 13.6                | 3,997   |                        |                              | 13.3                | 8,094   |                        |                              | 13.4                |
| HIV/AIDS pseudonyms                | 2,778  |                        |                              | 9.2                 | 3,342   |                        |                              | 11.1                | 6,120   |                        |                              | 10.2                |
| Tuberculosis                       | 19,496 | 5,011                  | 25.7                         | 16.7                | 11,362  | 4,386                  | 38.6                         | 14.5                | 30,858  | 9,397                  | 30.5                         | 15.6                |
| Sexually transmitted exc HIV       | 80     | 19                     | 23.5                         | 0.1                 | 148     | 60                     | 40.3                         | 0.2                 | 228     | 79                     | 34.4                         | 0.1                 |
| Diarrhoeal diseases                | 10,533 | 2,857                  | 27.1                         | 9.5                 | 10,425  | 2,907                  | 27.9                         | 9.6                 | 20,958  | 5,765                  | 27.5                         | 9.6                 |
| Selected vaccine preventable       | 89     | 26                     | 28.7                         | 0.1                 | 89      | 26                     | 29.5                         | 0.1                 | 178     | 52                     | 29.1                         | 0.1                 |
| Meningitis and encephalitis        | 1,519  | 0                      | 0.0                          | 0.0                 | 1,278   | 100                    | 7.9                          | 0.3                 | 2,797   | 100                    | 3.6                          | 0.2                 |
| Septicaemia                        | 1,475  | 37                     | 2.5                          | 0.1                 | 1,575   | 131                    | 8.3                          | 0.4                 | 3,050   | 168                    | 5.5                          | 0.3                 |
| Other infectious diseases          | 401    | 95                     | 23.6                         | 0.3                 | 384     | 139                    | 36.2                         | 0.5                 | 785     | 233                    | 29.7                         | 0.4                 |
| Lower respiratory infections       | 12,002 | 2,507                  | 20.9                         | 8.3                 | 10,957  | 2,850                  | 26.0                         | 9.4                 | 22,959  | 5,356                  | 23.3                         | 8.9                 |
| Adult respiratory distress         | 132    | 26                     | 20.0                         | 0.1                 | 74      | 22                     | 29.1                         | 0.1                 | 206     | 48                     | 23.3                         | 0.1                 |
| Iron deficiency anaemia            | 14     | 2                      | 14.5                         | 0.0                 | 2       | 0                      | 11.7                         | 0.0                 | 16      | 2                      | 14.1                         | 0.0                 |
| Other nutritional deficiencies     | 145    | 54                     | 37.0                         | 0.2                 | 150     | 48                     | 32.4                         | 0.2                 | 295     | 102                    | 34.6                         | 0.2                 |
| Endocrine nutritional blood immune | 1,572  | 146                    | 9.3                          | 0.5                 | 1,916   | 337                    | 17.6                         | 1.1                 | 3,488   | 483                    | 13.8                         | 0.8                 |
| Other interstitial lung            | 700    | 91                     | 12.9                         | 0.3                 | 424     | 73                     | 17.3                         | 0.2                 | 1,124   | 164                    | 14.6                         | 0.3                 |
| Other respiratory                  | 1,410  | 204                    | 14.5                         | 0.7                 | 857     | 155                    | 18.1                         | 0.5                 | 2,267   | 359                    | 15.8                         | 0.6                 |
| Other digestive diseases           | 1,316  | 192                    | 14.6                         | 0.6                 | 898     | 166                    | 18.5                         | 0.6                 | 2,214   | 358                    | 16.2                         | 0.6                 |
| Other neurological conditions      | 401    | 74                     | 18.5                         | 0.2                 | 294     | 70                     | 23.7                         | 0.2                 | 696     | 144                    | 20.7                         | 0.2                 |
| Ill-defined                        | 36,858 | 11,181                 | 30.3                         | 37.1                | 37,928  | 10,757                 | 28.4                         | 35.7                | 74,786  | 21,937                 | 29.3                         | 36.4                |
| Protein-energy malnutrition        | 2,347  | 702                    | 29.9                         | 2.3                 | 2,131   | 601                    | 28.2                         | 2.0                 | 4,479   | 1,304                  | 29.1                         | 2.2                 |
| Estimated AIDS                     |        | 30,098                 |                              | 100.0               |         | 30,167                 |                              | 100.0               |         | 60,265                 |                              | 100.0               |

**Table F.2: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 1998**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 4,100  |                        |                              | 9.6                 | 4,127   |                        |                              | 9.3                 | 8,227   |                        |                              | 9.5                 |
| HIV/AIDS pseudonyms                | 4,274  |                        |                              | 10.0                | 5,207   |                        |                              | 11.7                | 9,480   |                        |                              | 10.9                |
| Tuberculosis                       | 21,818 | 7,778                  | 35.6                         | 18.3                | 13,661  | 6,973                  | 51.0                         | 15.7                | 35,479  | 14,751                 | 41.6                         | 17.0                |
| Sexually transmitted exc HIV       | 62     | 40                     | 64.2                         | 0.1                 | 228     | 172                    | 75.6                         | 0.4                 | 289     | 212                    | 73.2                         | 0.2                 |
| Diarrhoeal diseases                | 11,217 | 3,755                  | 33.5                         | 8.8                 | 11,775  | 4,424                  | 37.6                         | 10.0                | 22,992  | 8,179                  | 35.6                         | 9.4                 |
| Selected vaccine preventable       | 83     | 55                     | 66.2                         | 0.1                 | 71      | 45                     | 63.4                         | 0.1                 | 153     | 100                    | 64.9                         | 0.1                 |
| Meningitis and encephalitis        | 1,827  | 62                     | 3.4                          | 0.1                 | 1,488   | 180                    | 12.1                         | 0.4                 | 3,315   | 242                    | 7.3                          | 0.3                 |
| Septicaemia                        | 1,586  | 158                    | 10.0                         | 0.4                 | 1,613   | 240                    | 14.9                         | 0.5                 | 3,199   | 398                    | 12.5                         | 0.5                 |
| Other infectious diseases          | 450    | 244                    | 54.3                         | 0.6                 | 475     | 282                    | 59.2                         | 0.6                 | 925     | 526                    | 56.8                         | 0.6                 |
| Lower respiratory infections       | 14,218 | 4,391                  | 30.9                         | 10.3                | 14,212  | 5,486                  | 38.6                         | 12.4                | 28,430  | 9,877                  | 34.7                         | 11.4                |
| Adult respiratory distress         | 112    | 56                     | 49.7                         | 0.1                 | 100     | 58                     | 58.0                         | 0.1                 | 212     | 114                    | 53.6                         | 0.1                 |
| Iron deficiency anaemia            | 7      | 5                      | 70.9                         | 0.0                 | 16      | 10                     | 60.3                         | 0.0                 | 23      | 14                     | 63.5                         | 0.0                 |
| Other nutritional deficiencies     | 128    | 74                     | 58.0                         | 0.2                 | 99      | 49                     | 49.4                         | 0.1                 | 227     | 123                    | 54.3                         | 0.1                 |
| Endocrine nutritional blood immune | 1,603  | 307                    | 19.1                         | 0.7                 | 2,297   | 614                    | 26.7                         | 1.4                 | 3,900   | 921                    | 23.6                         | 1.1                 |
| Other interstitial lung            | 509    | 138                    | 27.1                         | 0.3                 | 440     | 168                    | 38.2                         | 0.4                 | 948     | 306                    | 32.3                         | 0.4                 |
| Other respiratory                  | 1,587  | 463                    | 29.2                         | 1.1                 | 1,091   | 469                    | 43.0                         | 1.1                 | 2,678   | 932                    | 34.8                         | 1.1                 |
| Other digestive diseases           | 1,177  | 242                    | 20.6                         | 0.6                 | 888     | 267                    | 30.0                         | 0.6                 | 2,066   | 509                    | 24.6                         | 0.6                 |
| Other neurological conditions      | 399    | 165                    | 41.5                         | 0.4                 | 321     | 153                    | 47.6                         | 0.3                 | 720     | 318                    | 44.2                         | 0.4                 |
| Ill-defined                        | 39,480 | 15,455                 | 39.1                         | 36.3                | 40,698  | 14,719                 | 36.2                         | 33.1                | 80,178  | 30,174                 | 37.6                         | 34.7                |
| Protein-energy malnutrition        | 2,294  | 799                    | 34.8                         | 1.9                 | 2,176   | 765                    | 35.2                         | 1.7                 | 4,470   | 1,564                  | 35.0                         | 1.8                 |
| Estimated AIDS                     |        | 42,561                 |                              | 100.0               |         | 44,406                 |                              | 100.0               |         | 86,967                 |                              | 100.0               |

**Table F.3: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 1999**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 5,814  |                        |                              | 10.5                | 5,904   |                        |                              | 10.1                | 11,718  |                        |                              | 10.3                |
| HIV/AIDS pseudonyms                | 6,854  |                        |                              | 12.3                | 8,241   |                        |                              | 14.1                | 15,096  |                        |                              | 13.3                |
| Tuberculosis                       | 26,459 | 12,533                 | 47.4                         | 22.5                | 17,235  | 10,496                 | 60.9                         | 18.0                | 43,694  | 23,029                 | 52.7                         | 20.2                |
| Sexually transmitted exc HIV       | 117    | 82                     | 69.8                         | 0.1                 | 237     | 170                    | 71.8                         | 0.3                 | 354     | 252                    | 71.2                         | 0.2                 |
| Diarrhoeal diseases                | 13,401 | 5,765                  | 43.0                         | 10.4                | 14,241  | 6,774                  | 47.6                         | 11.6                | 27,642  | 12,540                 | 45.4                         | 11.0                |
| Selected vaccine preventable       | 82     | 54                     | 66.5                         | 0.1                 | 82      | 55                     | 66.8                         | 0.1                 | 163     | 109                    | 66.6                         | 0.1                 |
| Meningitis and encephalitis        | 2,150  | 69                     | 3.2                          | 0.1                 | 2,063   | 241                    | 11.7                         | 0.4                 | 4,214   | 311                    | 7.4                          | 0.3                 |
| Septicaemia                        | 1,539  | 179                    | 11.6                         | 0.3                 | 1,644   | 256                    | 15.6                         | 0.4                 | 3,184   | 435                    | 13.7                         | 0.4                 |
| Other infectious diseases          | 467    | 270                    | 57.9                         | 0.5                 | 494     | 308                    | 62.2                         | 0.5                 | 961     | 578                    | 60.1                         | 0.5                 |
| Lower respiratory infections       | 16,447 | 6,608                  | 40.2                         | 11.9                | 16,203  | 7,755                  | 47.9                         | 13.3                | 32,650  | 14,362                 | 44.0                         | 12.6                |
| Adult respiratory distress         | 112    | 54                     | 47.6                         | 0.1                 | 104     | 66                     | 63.7                         | 0.1                 | 216     | 120                    | 55.3                         | 0.1                 |
| Iron deficiency anaemia            | 5      | 3                      | 70.1                         | 0.0                 | 20      | 14                     | 71.3                         | 0.0                 | 25      | 18                     | 71.1                         | 0.0                 |
| Other nutritional deficiencies     | 142    | 80                     | 56.5                         | 0.1                 | 135     | 81                     | 60.1                         | 0.1                 | 276     | 161                    | 58.3                         | 0.1                 |
| Endocrine nutritional blood immune | 1,760  | 370                    | 21.0                         | 0.7                 | 2,496   | 692                    | 27.7                         | 1.2                 | 4,256   | 1,062                  | 25.0                         | 0.9                 |
| Other interstitial lung            | 642    | 199                    | 31.0                         | 0.4                 | 547     | 274                    | 50.1                         | 0.5                 | 1,188   | 473                    | 39.8                         | 0.4                 |
| Other respiratory                  | 1,648  | 538                    | 32.7                         | 1.0                 | 1,231   | 575                    | 46.7                         | 1.0                 | 2,878   | 1,113                  | 38.7                         | 1.0                 |
| Other digestive diseases           | 1,366  | 371                    | 27.1                         | 0.7                 | 913     | 261                    | 28.6                         | 0.4                 | 2,278   | 632                    | 27.7                         | 0.6                 |
| Other neurological conditions      | 399    | 171                    | 42.9                         | 0.3                 | 339     | 165                    | 48.8                         | 0.3                 | 738     | 337                    | 45.6                         | 0.3                 |
| Ill-defined                        | 36,723 | 14,823                 | 40.4                         | 26.7                | 39,670  | 15,246                 | 38.4                         | 26.2                | 76,393  | 30,069                 | 39.4                         | 26.4                |
| Protein-energy malnutrition        | 2,228  | 762                    | 34.2                         | 1.4                 | 2,040   | 723                    | 35.4                         | 1.2                 | 4,268   | 1,485                  | 34.8                         | 1.3                 |
| Estimated AIDS                     |        | 55,600                 |                              | 100.0               |         | 58,297                 |                              | 100.0               |         | 113,896                |                              | 100.0               |

**Table F.4: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2000**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 6,107  |                        |                              | 8.9                 | 6,382   |                        |                              | 8.3                 | 12,489  |                        |                              | 8.6                 |
| HIV/AIDS pseudonyms                | 8,864  |                        |                              | 12.9                | 11,101  |                        |                              | 14.5                | 19,965  |                        |                              | 13.8                |
| Tuberculosis                       | 30,512 | 16,730                 | 54.8                         | 24.4                | 22,221  | 15,457                 | 69.6                         | 20.2                | 52,734  | 32,188                 | 61.0                         | 22.2                |
| Sexually transmitted exc HIV       | 82     | 54                     | 66.6                         | 0.1                 | 290     | 227                    | 78.2                         | 0.3                 | 372     | 282                    | 75.7                         | 0.2                 |
| Diarrhoeal diseases                | 14,392 | 6,617                  | 46.0                         | 9.7                 | 16,174  | 8,386                  | 51.8                         | 11.0                | 30,566  | 15,003                 | 49.1                         | 10.4                |
| Selected vaccine preventable       | 70     | 54                     | 76.5                         | 0.1                 | 89      | 55                     | 61.4                         | 0.1                 | 159     | 108                    | 68.0                         | 0.1                 |
| Meningitis and encephalitis        | 2,628  | 65                     | 2.5                          | 0.1                 | 2,548   | 418                    | 16.4                         | 0.5                 | 5,175   | 482                    | 9.3                          | 0.3                 |
| Septicaemia                        | 1,782  | 180                    | 10.1                         | 0.3                 | 1,949   | 291                    | 14.9                         | 0.4                 | 3,731   | 471                    | 12.6                         | 0.3                 |
| Other infectious diseases          | 684    | 419                    | 61.2                         | 0.6                 | 690     | 482                    | 69.9                         | 0.6                 | 1,373   | 901                    | 65.6                         | 0.6                 |
| Lower respiratory infections       | 19,931 | 9,923                  | 49.8                         | 14.5                | 20,480  | 11,846                 | 57.8                         | 15.5                | 40,411  | 21,769                 | 53.9                         | 15.0                |
| Adult respiratory distress         | 78     | 36                     | 45.8                         | 0.1                 | 89      | 55                     | 61.6                         | 0.1                 | 168     | 91                     | 54.2                         | 0.1                 |
| Iron deficiency anaemia            | 9      | 6                      | 74.8                         | 0.0                 | 25      | 20                     | 79.0                         | 0.0                 | 33      | 26                     | 77.9                         | 0.0                 |
| Other nutritional deficiencies     | 121    | 88                     | 72.4                         | 0.1                 | 165     | 101                    | 61.5                         | 0.1                 | 286     | 189                    | 66.1                         | 0.1                 |
| Endocrine nutritional blood immune | 1,848  | 396                    | 21.4                         | 0.6                 | 2,732   | 855                    | 31.3                         | 1.1                 | 4,580   | 1,251                  | 27.3                         | 0.9                 |
| Other interstitial lung            | 541    | 158                    | 29.1                         | 0.2                 | 446     | 211                    | 47.3                         | 0.3                 | 988     | 369                    | 37.3                         | 0.3                 |
| Other respiratory                  | 1,842  | 716                    | 38.9                         | 1.0                 | 1,448   | 742                    | 51.2                         | 1.0                 | 3,290   | 1,457                  | 44.3                         | 1.0                 |
| Other digestive diseases           | 1,338  | 362                    | 27.0                         | 0.5                 | 1,165   | 449                    | 38.5                         | 0.6                 | 2,503   | 810                    | 32.4                         | 0.6                 |
| Other neurological conditions      | 440    | 190                    | 43.1                         | 0.3                 | 338     | 179                    | 52.8                         | 0.2                 | 779     | 368                    | 47.3                         | 0.3                 |
| Ill-defined                        | 37,756 | 16,699                 | 44.2                         | 24.4                | 43,064  | 18,468                 | 42.9                         | 24.1                | 80,820  | 35,167                 | 43.5                         | 24.3                |
| Protein-energy malnutrition        | 2,259  | 805                    | 35.6                         | 1.2                 | 2,140   | 763                    | 35.7                         | 1.0                 | 4,399   | 1,568                  | 35.7                         | 1.1                 |
| Estimated AIDS                     |        | 68,467                 |                              | 100.0               |         | 76,487                 |                              | 100.0               |         | 144,955                |                              | 100.0               |

**Table F.5: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2001**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 5,258  |                        |                              | 6.3                 | 5,707   |                        |                              | 6.1                 | 10,965  |                        |                              | 6.1                 |
| HIV/AIDS pseudonyms                | 10,606 |                        |                              | 12.6                | 13,070  |                        |                              | 13.9                | 23,676  |                        |                              | 13.3                |
| Tuberculosis                       | 35,481 | 21,782                 | 61.4                         | 25.9                | 26,702  | 19,992                 | 74.9                         | 21.2                | 62,183  | 41,775                 | 67.2                         | 23.4                |
| Sexually transmitted exc HIV       | 70     | 45                     | 63.7                         | 0.1                 | 319     | 247                    | 77.3                         | 0.3                 | 389     | 291                    | 74.8                         | 0.2                 |
| Diarrhoeal diseases                | 15,669 | 7,927                  | 50.6                         | 9.4                 | 17,662  | 9,913                  | 56.1                         | 10.5                | 33,331  | 17,841                 | 53.5                         | 10.0                |
| Selected vaccine preventable       | 88     | 67                     | 76.2                         | 0.1                 | 104     | 77                     | 73.7                         | 0.1                 | 192     | 144                    | 74.9                         | 0.1                 |
| Meningitis and encephalitis        | 3,116  | 94                     | 3.0                          | 0.1                 | 2,951   | 529                    | 17.9                         | 0.6                 | 6,068   | 624                    | 10.3                         | 0.3                 |
| Septicaemia                        | 1,969  | 240                    | 12.2                         | 0.3                 | 2,169   | 365                    | 16.8                         | 0.4                 | 4,139   | 605                    | 14.6                         | 0.3                 |
| Other infectious diseases          | 640    | 403                    | 63.0                         | 0.5                 | 740     | 526                    | 71.2                         | 0.6                 | 1,379   | 930                    | 67.4                         | 0.5                 |
| Lower respiratory infections       | 24,195 | 13,799                 | 57.0                         | 16.4                | 25,961  | 16,654                 | 64.2                         | 17.7                | 50,155  | 30,453                 | 60.7                         | 17.1                |
| Adult respiratory distress         | 180    | 99                     | 55.2                         | 0.1                 | 142     | 96                     | 67.2                         | 0.1                 | 322     | 195                    | 60.5                         | 0.1                 |
| Iron deficiency anaemia            | 9      | 8                      | 91.6                         | 0.0                 | 26      | 22                     | 85.9                         | 0.0                 | 35      | 31                     | 87.4                         | 0.0                 |
| Other nutritional deficiencies     | 119    | 78                     | 65.5                         | 0.1                 | 158     | 106                    | 67.2                         | 0.1                 | 277     | 184                    | 66.4                         | 0.1                 |
| Endocrine nutritional blood immune | 1,998  | 511                    | 25.6                         | 0.6                 | 3,085   | 1,088                  | 35.3                         | 1.2                 | 5,083   | 1,599                  | 31.5                         | 0.9                 |
| Other interstitial lung            | 796    | 368                    | 46.3                         | 0.4                 | 737     | 459                    | 62.3                         | 0.5                 | 1,534   | 828                    | 54.0                         | 0.5                 |
| Other respiratory                  | 2,145  | 973                    | 45.4                         | 1.2                 | 1,647   | 880                    | 53.4                         | 0.9                 | 3,792   | 1,854                  | 48.9                         | 1.0                 |
| Other digestive diseases           | 1,510  | 465                    | 30.8                         | 0.6                 | 1,167   | 427                    | 36.6                         | 0.5                 | 2,677   | 893                    | 33.3                         | 0.5                 |
| Other neurological conditions      | 421    | 174                    | 41.5                         | 0.2                 | 372     | 181                    | 48.7                         | 0.2                 | 793     | 356                    | 44.9                         | 0.2                 |
| Ill-defined                        | 40,763 | 20,280                 | 49.8                         | 24.1                | 47,509  | 23,255                 | 48.9                         | 24.7                | 88,272  | 43,536                 | 49.3                         | 24.4                |
| Protein-energy malnutrition        | 2,283  | 846                    | 37.1                         | 1.0                 | 2,045   | 711                    | 34.8                         | 0.8                 | 4,328   | 1,557                  | 36.0                         | 0.9                 |
| Estimated AIDS                     |        | 84,026                 |                              | 100.0               |         | 94,308                 |                              | 100.0               |         | 178,334                |                              | 100.0               |

**Table F.6: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2002**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 5,780  |                        |                              | 5.8                 | 6,401   |                        |                              | 5.5                 | 12,181  |                        |                              | 5.7                 |
| HIV/AIDS pseudonyms                | 11,963 |                        |                              | 12.1                | 14,953  |                        |                              | 12.9                | 26,916  |                        |                              | 12.5                |
| Tuberculosis                       | 39,933 | 26,419                 | 66.2                         | 26.7                | 32,234  | 25,551                 | 79.3                         | 22.1                | 72,167  | 51,970                 | 72.0                         | 24.2                |
| Sexually transmitted exc HIV       | 81     | 54                     | 66.5                         | 0.1                 | 306     | 242                    | 79.1                         | 0.2                 | 387     | 296                    | 76.5                         | 0.1                 |
| Diarrhoeal diseases                | 17,878 | 10,212                 | 57.1                         | 10.3                | 21,454  | 13,611                 | 63.4                         | 11.8                | 39,332  | 23,823                 | 60.6                         | 11.1                |
| Selected vaccine preventable       | 105    | 75                     | 71.6                         | 0.1                 | 108     | 81                     | 75.1                         | 0.1                 | 213     | 156                    | 73.4                         | 0.1                 |
| Meningitis and encephalitis        | 3,401  | 70                     | 2.1                          | 0.1                 | 3,630   | 749                    | 20.6                         | 0.6                 | 7,031   | 819                    | 11.7                         | 0.4                 |
| Septicaemia                        | 2,123  | 276                    | 13.0                         | 0.3                 | 2,408   | 490                    | 20.4                         | 0.4                 | 4,532   | 766                    | 16.9                         | 0.4                 |
| Other infectious diseases          | 770    | 510                    | 66.3                         | 0.5                 | 972     | 720                    | 74.1                         | 0.6                 | 1,741   | 1,230                  | 70.6                         | 0.6                 |
| Lower respiratory infections       | 27,602 | 17,205                 | 62.3                         | 17.4                | 30,663  | 21,450                 | 70.0                         | 18.5                | 58,265  | 38,654                 | 66.3                         | 18.0                |
| Adult respiratory distress         | 106    | 59                     | 55.4                         | 0.1                 | 105     | 76                     | 72.4                         | 0.1                 | 210     | 134                    | 63.8                         | 0.1                 |
| Iron deficiency anaemia            | 9      | 7                      | 77.1                         | 0.0                 | 17      | 14                     | 87.2                         | 0.0                 | 26      | 21                     | 83.6                         | 0.0                 |
| Other nutritional deficiencies     | 113    | 69                     | 61.1                         | 0.1                 | 187     | 143                    | 76.6                         | 0.1                 | 300     | 213                    | 70.7                         | 0.1                 |
| Endocrine nutritional blood immune | 2,308  | 670                    | 29.0                         | 0.7                 | 3,480   | 1,326                  | 38.1                         | 1.1                 | 5,788   | 1,996                  | 34.5                         | 0.9                 |
| Other interstitial lung            | 667    | 269                    | 40.4                         | 0.3                 | 602     | 375                    | 62.4                         | 0.3                 | 1,268   | 644                    | 50.8                         | 0.3                 |
| Other respiratory                  | 2,155  | 964                    | 44.7                         | 1.0                 | 1,856   | 1,116                  | 60.2                         | 1.0                 | 4,010   | 2,080                  | 51.9                         | 1.0                 |
| Other digestive diseases           | 1,369  | 392                    | 28.6                         | 0.4                 | 1,121   | 423                    | 37.7                         | 0.4                 | 2,490   | 814                    | 32.7                         | 0.4                 |
| Other neurological conditions      | 459    | 218                    | 47.6                         | 0.2                 | 396     | 206                    | 52.0                         | 0.2                 | 854     | 424                    | 49.7                         | 0.2                 |
| Ill-defined                        | 42,766 | 22,790                 | 53.3                         | 23.0                | 50,691  | 26,823                 | 52.9                         | 23.2                | 93,457  | 49,613                 | 53.1                         | 23.1                |
| Protein-energy malnutrition        | 2,442  | 1,014                  | 41.5                         | 1.0                 | 2,263   | 916                    | 40.5                         | 0.8                 | 4,704   | 1,929                  | 41.0                         | 0.9                 |
| Estimated AIDS                     |        | 99,016                 |                              | 100.0               |         | 115,666                |                              | 100.0               |         | 214,682                |                              | 100.0               |

**Table F.7: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2003**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 6,273  |                        |                              | 5.4                 | 6,970   |                        |                              | 5.2                 | 13,243  |                        |                              | 5.3                 |
| HIV/AIDS pseudonyms                | 14,014 |                        |                              | 12.0                | 17,620  |                        |                              | 13.1                | 31,634  |                        |                              | 12.6                |
| Tuberculosis                       | 43,546 | 29,951                 | 68.8                         | 25.6                | 36,080  | 29,407                 | 81.5                         | 21.8                | 79,626  | 59,358                 | 74.5                         | 23.6                |
| Sexually transmitted exc HIV       | 70     | 48                     | 69.0                         | 0.0                 | 320     | 248                    | 77.7                         | 0.2                 | 390     | 297                    | 76.1                         | 0.1                 |
| Diarrhoeal diseases                | 20,349 | 12,556                 | 61.7                         | 10.7                | 24,510  | 16,407                 | 66.9                         | 12.2                | 44,859  | 28,964                 | 64.6                         | 11.5                |
| Selected vaccine preventable       | 120    | 88                     | 73.2                         | 0.1                 | 98      | 77                     | 78.5                         | 0.1                 | 219     | 165                    | 75.6                         | 0.1                 |
| Meningitis and encephalitis        | 4,209  | 169                    | 4.0                          | 0.1                 | 4,409   | 986                    | 22.4                         | 0.7                 | 8,618   | 1,154                  | 13.4                         | 0.5                 |
| Septicaemia                        | 2,256  | 279                    | 12.4                         | 0.2                 | 2,491   | 502                    | 20.1                         | 0.4                 | 4,747   | 780                    | 16.4                         | 0.3                 |
| Other infectious diseases          | 964    | 680                    | 70.6                         | 0.6                 | 1,239   | 990                    | 79.9                         | 0.7                 | 2,203   | 1,670                  | 75.8                         | 0.7                 |
| Lower respiratory infections       | 32,707 | 21,873                 | 66.9                         | 18.7                | 35,451  | 25,887                 | 73.0                         | 19.2                | 68,158  | 47,759                 | 70.1                         | 19.0                |
| Adult respiratory distress         | 128    | 75                     | 58.6                         | 0.1                 | 161     | 121                    | 75.5                         | 0.1                 | 289     | 196                    | 68.0                         | 0.1                 |
| Iron deficiency anaemia            | 12     | 11                     | 91.1                         | 0.0                 | 26      | 20                     | 76.1                         | 0.0                 | 38      | 31                     | 80.9                         | 0.0                 |
| Other nutritional deficiencies     | 146    | 108                    | 74.1                         | 0.1                 | 177     | 138                    | 78.2                         | 0.1                 | 323     | 246                    | 76.4                         | 0.1                 |
| Endocrine nutritional blood immune | 2,476  | 717                    | 28.9                         | 0.6                 | 3,685   | 1,539                  | 41.8                         | 1.1                 | 6,161   | 2,255                  | 36.6                         | 0.9                 |
| Other interstitial lung            | 819    | 361                    | 44.0                         | 0.3                 | 832     | 566                    | 68.1                         | 0.4                 | 1,651   | 927                    | 56.2                         | 0.4                 |
| Other respiratory                  | 2,715  | 1,426                  | 52.5                         | 1.2                 | 2,392   | 1,571                  | 65.7                         | 1.2                 | 5,107   | 2,997                  | 58.7                         | 1.2                 |
| Other digestive diseases           | 1,448  | 407                    | 28.1                         | 0.3                 | 1,220   | 483                    | 39.6                         | 0.4                 | 2,668   | 890                    | 33.3                         | 0.4                 |
| Other neurological conditions      | 525    | 252                    | 47.9                         | 0.2                 | 490     | 265                    | 54.0                         | 0.2                 | 1,015   | 516                    | 50.8                         | 0.2                 |
| Ill-defined                        | 46,120 | 26,720                 | 57.9                         | 22.9                | 53,971  | 30,249                 | 56.0                         | 22.5                | 100,091 | 56,970                 | 56.9                         | 22.6                |
| Protein-energy malnutrition        | 2,202  | 828                    | 37.6                         | 0.7                 | 1,959   | 641                    | 32.7                         | 0.5                 | 4,161   | 1,470                  | 35.3                         | 0.6                 |
| Estimated AIDS                     |        | 116,836                |                              | 100.0               |         | 134,688                |                              | 100.0               |         | 251,524                |                              | 100.0               |

**Table F.8: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2004**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 7,162  |                        |                              | 5.8                 | 8,049   |                        |                              | 5.5                 | 15,211  |                        |                              | 5.6                 |
| HIV/AIDS pseudonyms                | 15,332 |                        |                              | 12.4                | 19,713  |                        |                              | 13.4                | 35,046  |                        |                              | 12.9                |
| Tuberculosis                       | 44,669 | 31,242                 | 69.9                         | 25.3                | 38,144  | 31,564                 | 82.7                         | 21.4                | 82,813  | 62,806                 | 75.8                         | 23.2                |
| Sexually transmitted exc HIV       | 56     | 32                     | 57.3                         | 0.0                 | 303     | 232                    | 76.7                         | 0.2                 | 359     | 264                    | 73.7                         | 0.1                 |
| Diarrhoeal diseases                | 22,076 | 14,287                 | 64.7                         | 11.6                | 27,010  | 19,163                 | 70.9                         | 13.0                | 49,086  | 33,451                 | 68.1                         | 12.3                |
| Selected vaccine preventable       | 188    | 147                    | 78.3                         | 0.1                 | 178     | 143                    | 80.3                         | 0.1                 | 365     | 290                    | 79.3                         | 0.1                 |
| Meningitis and encephalitis        | 4,736  | 201                    | 4.2                          | 0.2                 | 5,280   | 1,300                  | 24.6                         | 0.9                 | 10,016  | 1,501                  | 15.0                         | 0.6                 |
| Septicaemia                        | 2,296  | 330                    | 14.4                         | 0.3                 | 2,510   | 528                    | 21.0                         | 0.4                 | 4,806   | 858                    | 17.9                         | 0.3                 |
| Other infectious diseases          | 1,114  | 848                    | 76.1                         | 0.7                 | 1,360   | 1,129                  | 83.0                         | 0.8                 | 2,474   | 1,977                  | 79.9                         | 0.7                 |
| Lower respiratory infections       | 32,254 | 21,445                 | 66.5                         | 17.4                | 36,135  | 26,833                 | 74.3                         | 18.2                | 68,389  | 48,278                 | 70.6                         | 17.8                |
| Adult respiratory distress         | 232    | 153                    | 65.8                         | 0.1                 | 244     | 188                    | 77.0                         | 0.1                 | 476     | 340                    | 71.6                         | 0.1                 |
| Iron deficiency anaemia            | 6      | 6                      | 100.0                        | 0.0                 | 20      | 14                     | 73.2                         | 0.0                 | 26      | 20                     | 79.6                         | 0.0                 |
| Other nutritional deficiencies     | 70     | 53                     | 75.3                         | 0.0                 | 83      | 68                     | 81.0                         | 0.0                 | 153     | 120                    | 78.4                         | 0.0                 |
| Endocrine nutritional blood immune | 2,434  | 700                    | 28.7                         | 0.6                 | 3,800   | 1,596                  | 42.0                         | 1.1                 | 6,234   | 2,296                  | 36.8                         | 0.8                 |
| Other interstitial lung            | 1,729  | 1,167                  | 67.5                         | 0.9                 | 1,783   | 1,454                  | 81.5                         | 1.0                 | 3,512   | 2,621                  | 74.6                         | 1.0                 |
| Other respiratory                  | 2,769  | 1,479                  | 53.4                         | 1.2                 | 2,497   | 1,674                  | 67.0                         | 1.1                 | 5,267   | 3,153                  | 59.9                         | 1.2                 |
| Other digestive diseases           | 1,484  | 460                    | 31.0                         | 0.4                 | 1,393   | 633                    | 45.5                         | 0.4                 | 2,877   | 1,093                  | 38.0                         | 0.4                 |
| Other neurological conditions      | 593    | 311                    | 52.4                         | 0.3                 | 479     | 259                    | 54.1                         | 0.2                 | 1,072   | 570                    | 53.2                         | 0.2                 |
| Ill-defined                        | 45,997 | 27,542                 | 59.9                         | 22.3                | 54,105  | 32,225                 | 59.6                         | 21.9                | 100,102 | 59,768                 | 59.7                         | 22.1                |
| Protein-energy malnutrition        | 1,950  | 566                    | 29.0                         | 0.5                 | 1,908   | 639                    | 33.5                         | 0.4                 | 3,858   | 1,205                  | 31.2                         | 0.4                 |
| Estimated AIDS                     |        | 123,463                |                              | 100.0               |         | 147,406                |                              | 100.0               |         | 270,869                |                              | 100.0               |

**Table F.9: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2005**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 7,774  |                        |                              | 6.0                 | 8,649   |                        |                              | 5.7                 | 16,423  |                        |                              | 5.8                 |
| HIV/AIDS pseudonyms                | 15,548 |                        |                              | 12.1                | 20,498  |                        |                              | 13.5                | 36,047  |                        |                              | 12.8                |
| Tuberculosis                       | 46,085 | 32,635                 | 70.8                         | 25.4                | 39,397  | 32,744                 | 83.1                         | 21.5                | 85,482  | 65,379                 | 76.5                         | 23.3                |
| Sexually transmitted exc HIV       | 49     | 29                     | 59.3                         | 0.0                 | 265     | 199                    | 75.2                         | 0.1                 | 314     | 228                    | 72.7                         | 0.1                 |
| Diarrhoeal diseases                | 22,878 | 14,904                 | 65.1                         | 11.6                | 28,221  | 20,071                 | 71.1                         | 13.2                | 51,100  | 34,975                 | 68.4                         | 12.5                |
| Selected vaccine preventable       | 167    | 131                    | 78.9                         | 0.1                 | 182     | 143                    | 78.4                         | 0.1                 | 349     | 275                    | 78.7                         | 0.1                 |
| Meningitis and encephalitis        | 5,056  | 224                    | 4.4                          | 0.2                 | 5,951   | 1,687                  | 28.4                         | 1.1                 | 11,007  | 1,911                  | 17.4                         | 0.7                 |
| Septicaemia                        | 2,559  | 411                    | 16.1                         | 0.3                 | 2,790   | 604                    | 21.7                         | 0.4                 | 5,348   | 1,015                  | 19.0                         | 0.4                 |
| Other infectious diseases          | 955    | 679                    | 71.1                         | 0.5                 | 1,069   | 842                    | 78.8                         | 0.6                 | 2,023   | 1,521                  | 75.2                         | 0.5                 |
| Lower respiratory infections       | 32,554 | 21,607                 | 66.4                         | 16.8                | 35,971  | 26,253                 | 73.0                         | 17.2                | 68,524  | 47,860                 | 69.8                         | 17.0                |
| Adult respiratory distress         | 257    | 174                    | 67.9                         | 0.1                 | 287     | 227                    | 79.3                         | 0.1                 | 543     | 401                    | 73.9                         | 0.1                 |
| Iron deficiency anaemia            | 14     | 13                     | 98.2                         | 0.0                 | 17      | 10                     | 57.3                         | 0.0                 | 31      | 23                     | 75.3                         | 0.0                 |
| Other nutritional deficiencies     | 87     | 67                     | 77.2                         | 0.1                 | 100     | 80                     | 80.4                         | 0.1                 | 187     | 147                    | 78.9                         | 0.1                 |
| Endocrine nutritional blood immune | 2,691  | 836                    | 31.1                         | 0.7                 | 3,973   | 1,664                  | 41.9                         | 1.1                 | 6,664   | 2,500                  | 37.5                         | 0.9                 |
| Other interstitial lung            | 1,630  | 1,061                  | 65.1                         | 0.8                 | 1,750   | 1,416                  | 80.9                         | 0.9                 | 3,380   | 2,477                  | 73.3                         | 0.9                 |
| Other respiratory                  | 3,007  | 1,592                  | 52.9                         | 1.2                 | 2,871   | 1,907                  | 66.4                         | 1.3                 | 5,878   | 3,499                  | 59.5                         | 1.2                 |
| Other digestive diseases           | 1,558  | 526                    | 33.8                         | 0.4                 | 1,468   | 670                    | 45.6                         | 0.4                 | 3,026   | 1,196                  | 39.5                         | 0.4                 |
| Other neurological conditions      | 519    | 251                    | 48.3                         | 0.2                 | 497     | 275                    | 55.3                         | 0.2                 | 1,016   | 525                    | 51.7                         | 0.2                 |
| Ill-defined                        | 48,277 | 29,622                 | 61.4                         | 23.0                | 56,522  | 33,906                 | 60.0                         | 22.3                | 104,800 | 63,528                 | 60.6                         | 22.6                |
| Protein-energy malnutrition        | 1,826  | 500                    | 27.4                         | 0.4                 | 1,611   | 375                    | 23.3                         | 0.2                 | 3,437   | 875                    | 25.4                         | 0.3                 |
| Estimated AIDS                     |        | 128,586                |                              | 100.0               |         | 152,220                |                              | 100.0               |         | 280,806                |                              | 100.0               |

**Table F.10: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2006**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 7,780  |                        |                              | 5.9                 | 8,986   |                        |                              | 6.0                 | 16,766  |                        |                              | 5.9                 |
| HIV/AIDS pseudonyms                | 16,595 |                        |                              | 12.5                | 21,809  |                        |                              | 14.4                | 38,404  |                        |                              | 13.5                |
| Tuberculosis                       | 47,809 | 34,218                 | 71.6                         | 25.8                | 40,046  | 33,382                 | 83.4                         | 22.1                | 87,855  | 67,600                 | 76.9                         | 23.9                |
| Sexually transmitted exc HIV       | 46     | 31                     | 67.5                         | 0.0                 | 269     | 193                    | 71.7                         | 0.1                 | 315     | 224                    | 71.1                         | 0.1                 |
| Diarrhoeal diseases                | 23,572 | 15,365                 | 65.2                         | 11.6                | 27,952  | 19,455                 | 69.6                         | 12.9                | 51,523  | 34,819                 | 67.6                         | 12.3                |
| Selected vaccine preventable       | 147    | 110                    | 74.9                         | 0.1                 | 163     | 121                    | 74.6                         | 0.1                 | 309     | 231                    | 74.7                         | 0.1                 |
| Meningitis and encephalitis        | 5,288  | 277                    | 5.2                          | 0.2                 | 6,041   | 1,550                  | 25.7                         | 1.0                 | 11,329  | 1,827                  | 16.1                         | 0.6                 |
| Septicaemia                        | 2,354  | 278                    | 11.8                         | 0.2                 | 2,870   | 576                    | 20.1                         | 0.4                 | 5,224   | 855                    | 16.4                         | 0.3                 |
| Other infectious diseases          | 1,094  | 812                    | 74.2                         | 0.6                 | 1,250   | 1,003                  | 80.2                         | 0.7                 | 2,344   | 1,814                  | 77.4                         | 0.6                 |
| Lower respiratory infections       | 32,300 | 21,059                 | 65.2                         | 15.9                | 34,932  | 24,718                 | 70.8                         | 16.4                | 67,231  | 45,777                 | 68.1                         | 16.2                |
| Adult respiratory distress         | 257    | 168                    | 65.6                         | 0.1                 | 243     | 178                    | 73.0                         | 0.1                 | 500     | 346                    | 69.2                         | 0.1                 |
| Iron deficiency anaemia            | 11     | 9                      | 80.9                         | 0.0                 | 23      | 11                     | 49.1                         | 0.0                 | 34      | 20                     | 59.4                         | 0.0                 |
| Other nutritional deficiencies     | 47     | 33                     | 70.2                         | 0.0                 | 43      | 25                     | 59.4                         | 0.0                 | 90      | 58                     | 65.1                         | 0.0                 |
| Endocrine nutritional blood immune | 2,738  | 893                    | 32.6                         | 0.7                 | 4,060   | 1,681                  | 41.4                         | 1.1                 | 6,797   | 2,574                  | 37.9                         | 0.9                 |
| Other interstitial lung            | 1,379  | 836                    | 60.6                         | 0.6                 | 1,418   | 1,079                  | 76.1                         | 0.7                 | 2,797   | 1,915                  | 68.5                         | 0.7                 |
| Other respiratory                  | 2,387  | 1,154                  | 48.4                         | 0.9                 | 2,177   | 1,345                  | 61.8                         | 0.9                 | 4,563   | 2,499                  | 54.8                         | 0.9                 |
| Other digestive diseases           | 1,609  | 556                    | 34.6                         | 0.4                 | 1,393   | 598                    | 42.9                         | 0.4                 | 3,002   | 1,154                  | 38.4                         | 0.4                 |
| Other neurological conditions      | 640    | 328                    | 51.3                         | 0.2                 | 530     | 322                    | 60.8                         | 0.2                 | 1,171   | 651                    | 55.6                         | 0.2                 |
| Ill-defined                        | 50,083 | 31,402                 | 62.7                         | 23.7                | 57,365  | 33,594                 | 58.6                         | 22.2                | 107,448 | 64,995                 | 60.5                         | 22.9                |
| Protein-energy malnutrition        | 1,848  | 495                    | 26.8                         | 0.4                 | 1,614   | 403                    | 25.0                         | 0.3                 | 3,462   | 898                    | 25.9                         | 0.3                 |
| Estimated AIDS                     |        | 132,400                |                              | 100.0               |         | 151,028                |                              | 100.0               |         | 283,428                |                              | 100.0               |

**Table F.11: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2007**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 6,708  |                        |                              | 5.3                 | 8,384   |                        |                              | 5.9                 | 15,092  |                        |                              | 5.6                 |
| HIV/AIDS pseudonyms                | 16,092 |                        |                              | 12.7                | 19,465  |                        |                              | 13.7                | 35,557  |                        |                              | 13.2                |
| Tuberculosis                       | 47,153 | 33,679                 | 71.4                         | 26.5                | 39,475  | 32,695                 | 82.8                         | 22.9                | 86,629  | 66,374                 | 76.6                         | 24.6                |
| Sexually transmitted exc HIV       | 50     | 30                     | 61.2                         | 0.0                 | 227     | 170                    | 74.7                         | 0.1                 | 277     | 200                    | 72.3                         | 0.1                 |
| Diarrhoeal diseases                | 22,280 | 13,701                 | 61.5                         | 10.8                | 26,093  | 17,066                 | 65.4                         | 12.0                | 48,373  | 30,766                 | 63.6                         | 11.4                |
| Selected vaccine preventable       | 126    | 99                     | 78.1                         | 0.1                 | 150     | 121                    | 80.5                         | 0.1                 | 277     | 220                    | 79.4                         | 0.1                 |
| Meningitis and encephalitis        | 5,338  | 226                    | 4.2                          | 0.2                 | 5,806   | 1,342                  | 23.1                         | 0.9                 | 11,143  | 1,568                  | 14.1                         | 0.6                 |
| Septicaemia                        | 2,642  | 373                    | 14.1                         | 0.3                 | 3,137   | 643                    | 20.5                         | 0.5                 | 5,778   | 1,017                  | 17.6                         | 0.4                 |
| Other infectious diseases          | 1,036  | 747                    | 72.2                         | 0.6                 | 1,213   | 975                    | 80.4                         | 0.7                 | 2,249   | 1,723                  | 76.6                         | 0.6                 |
| Lower respiratory infections       | 31,606 | 20,022                 | 63.3                         | 15.8                | 33,027  | 22,650                 | 68.6                         | 15.9                | 64,633  | 42,672                 | 66.0                         | 15.8                |
| Adult respiratory distress         | 220    | 136                    | 61.7                         | 0.1                 | 269     | 208                    | 77.4                         | 0.1                 | 489     | 344                    | 70.4                         | 0.1                 |
| Iron deficiency anaemia            | 11     | 11                     | 100.0                        | 0.0                 | 23      | 18                     | 78.4                         | 0.0                 | 34      | 29                     | 85.2                         | 0.0                 |
| Other nutritional deficiencies     | 44     | 34                     | 77.5                         | 0.0                 | 66      | 49                     | 73.8                         | 0.0                 | 110     | 83                     | 75.3                         | 0.0                 |
| Endocrine nutritional blood immune | 2,821  | 874                    | 31.0                         | 0.7                 | 4,045   | 1,641                  | 40.6                         | 1.2                 | 6,867   | 2,514                  | 36.6                         | 0.9                 |
| Other interstitial lung            | 816    | 383                    | 46.9                         | 0.3                 | 777     | 494                    | 63.6                         | 0.3                 | 1,593   | 877                    | 55.1                         | 0.3                 |
| Other respiratory                  | 2,636  | 1,272                  | 48.3                         | 1.0                 | 2,389   | 1,451                  | 60.7                         | 1.0                 | 5,025   | 2,723                  | 54.2                         | 1.0                 |
| Other digestive diseases           | 1,643  | 535                    | 32.6                         | 0.4                 | 1,343   | 561                    | 41.8                         | 0.4                 | 2,986   | 1,097                  | 36.7                         | 0.4                 |
| Other neurological conditions      | 606    | 324                    | 53.4                         | 0.3                 | 504     | 286                    | 56.8                         | 0.2                 | 1,110   | 610                    | 54.9                         | 0.2                 |
| Ill-defined                        | 50,582 | 31,506                 | 62.3                         | 24.8                | 58,141  | 33,973                 | 58.4                         | 23.8                | 108,723 | 65,479                 | 60.2                         | 24.3                |
| Protein-energy malnutrition        | 1,572  | 274                    | 17.4                         | 0.2                 | 1,501   | 299                    | 19.9                         | 0.2                 | 3,072   | 573                    | 18.7                         | 0.2                 |
| Estimated AIDS                     |        | 127,025                |                              | 100.0               |         | 142,492                |                              | 100.0               |         | 269,517                |                              | 100.0               |

**Table F.12: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2008**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 7,890  |                        |                              | 6.3                 | 8,756   |                        |                              | 6.4                 | 16,646  |                        |                              | 6.4                 |
| HIV/AIDS pseudonyms                | 16,332 |                        |                              | 13.1                | 20,225  |                        |                              | 14.8                | 36,558  |                        |                              | 14.0                |
| Tuberculosis                       | 46,126 | 32,528                 | 70.5                         | 26.0                | 38,166  | 31,254                 | 81.9                         | 22.9                | 84,293  | 63,782                 | 75.7                         | 24.4                |
| Sexually transmitted exc HIV       | 46     | 25                     | 54.1                         | 0.0                 | 193     | 124                    | 64.5                         | 0.1                 | 238     | 149                    | 62.5                         | 0.1                 |
| Diarrhoeal diseases                | 23,316 | 14,445                 | 62.0                         | 11.5                | 26,674  | 17,520                 | 65.7                         | 12.8                | 49,990  | 31,965                 | 63.9                         | 12.2                |
| Selected vaccine preventable       | 182    | 149                    | 82.0                         | 0.1                 | 198     | 165                    | 83.2                         | 0.1                 | 380     | 314                    | 82.7                         | 0.1                 |
| Meningitis and encephalitis        | 5,174  | 207                    | 4.0                          | 0.2                 | 5,426   | 1,090                  | 20.1                         | 0.8                 | 10,600  | 1,297                  | 12.2                         | 0.5                 |
| Septicaemia                        | 2,846  | 413                    | 14.5                         | 0.3                 | 3,107   | 628                    | 20.2                         | 0.5                 | 5,953   | 1,042                  | 17.5                         | 0.4                 |
| Other infectious diseases          | 1,043  | 746                    | 71.5                         | 0.6                 | 1,087   | 855                    | 78.6                         | 0.6                 | 2,130   | 1,600                  | 75.1                         | 0.6                 |
| Lower respiratory infections       | 29,413 | 17,960                 | 61.1                         | 14.4                | 30,228  | 19,835                 | 65.6                         | 14.5                | 59,641  | 37,795                 | 63.4                         | 14.4                |
| Adult respiratory distress         | 311    | 206                    | 66.2                         | 0.2                 | 318     | 243                    | 76.5                         | 0.2                 | 630     | 449                    | 71.4                         | 0.2                 |
| Iron deficiency anaemia            | 9      | 7                      | 77.1                         | 0.0                 | 16      | 12                     | 74.7                         | 0.0                 | 25      | 19                     | 75.6                         | 0.0                 |
| Other nutritional deficiencies     | 31     | 21                     | 66.8                         | 0.0                 | 44      | 30                     | 66.8                         | 0.0                 | 76      | 51                     | 66.8                         | 0.0                 |
| Endocrine nutritional blood immune | 2,815  | 843                    | 29.9                         | 0.7                 | 4,126   | 1,540                  | 37.3                         | 1.1                 | 6,941   | 2,382                  | 34.3                         | 0.9                 |
| Other interstitial lung            | 929    | 436                    | 46.9                         | 0.3                 | 854     | 521                    | 61.1                         | 0.4                 | 1,783   | 957                    | 53.7                         | 0.4                 |
| Other respiratory                  | 2,392  | 1,097                  | 45.8                         | 0.9                 | 2,276   | 1,396                  | 61.3                         | 1.0                 | 4,668   | 2,492                  | 53.4                         | 1.0                 |
| Other digestive diseases           | 1,570  | 486                    | 31.0                         | 0.4                 | 1,383   | 566                    | 40.9                         | 0.4                 | 2,953   | 1,052                  | 35.6                         | 0.4                 |
| Other neurological conditions      | 563    | 266                    | 47.4                         | 0.2                 | 527     | 293                    | 55.6                         | 0.2                 | 1,090   | 560                    | 51.3                         | 0.2                 |
| Ill-defined                        | 49,628 | 30,541                 | 61.5                         | 24.4                | 55,854  | 31,251                 | 56.0                         | 22.9                | 105,482 | 61,792                 | 58.6                         | 23.6                |
| Protein-energy malnutrition        | 1,830  | 479                    | 26.2                         | 0.4                 | 1,758   | 399                    | 22.7                         | 0.3                 | 3,589   | 878                    | 24.5                         | 0.3                 |
| Estimated AIDS                     |        | 125,077                |                              | 100.0               |         | 136,703                |                              | 100.0               |         | 261,780                |                              | 100.0               |

**Table F.13: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2009**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 9,412  |                        |                              | 8.2                 | 10,138  |                        |                              | 8.4                 | 19,550  |                        |                              | 8.3                 |
| HIV/AIDS pseudonyms                | 15,683 |                        |                              | 13.7                | 18,575  |                        |                              | 15.3                | 34,258  |                        |                              | 14.5                |
| Tuberculosis                       | 43,349 | 29,562                 | 68.2                         | 25.9                | 34,909  | 27,863                 | 79.8                         | 23.0                | 78,258  | 57,425                 | 73.4                         | 24.4                |
| Sexually transmitted exc HIV       | 57     | 30                     | 52.5                         | 0.0                 | 207     | 142                    | 68.7                         | 0.1                 | 263     | 172                    | 65.2                         | 0.1                 |
| Diarrhoeal diseases                | 18,313 | 9,425                  | 51.5                         | 8.3                 | 20,416  | 11,448                 | 56.1                         | 9.4                 | 38,729  | 20,872                 | 53.9                         | 8.9                 |
| Selected vaccine preventable       | 147    | 118                    | 80.1                         | 0.1                 | 156     | 122                    | 78.3                         | 0.1                 | 303     | 240                    | 79.2                         | 0.1                 |
| Meningitis and encephalitis        | 4,936  | 184                    | 3.7                          | 0.2                 | 5,009   | 829                    | 16.5                         | 0.7                 | 9,944   | 1,013                  | 10.2                         | 0.4                 |
| Septicaemia                        | 2,908  | 335                    | 11.5                         | 0.3                 | 3,115   | 567                    | 18.2                         | 0.5                 | 6,023   | 902                    | 15.0                         | 0.4                 |
| Other infectious diseases          | 909    | 631                    | 69.5                         | 0.6                 | 956     | 723                    | 75.6                         | 0.6                 | 1,865   | 1,354                  | 72.6                         | 0.6                 |
| Lower respiratory infections       | 28,527 | 16,496                 | 57.8                         | 14.4                | 28,424  | 17,690                 | 62.2                         | 14.6                | 56,951  | 34,186                 | 60.0                         | 14.5                |
| Adult respiratory distress         | 345    | 230                    | 66.7                         | 0.2                 | 339     | 236                    | 69.5                         | 0.2                 | 684     | 465                    | 68.1                         | 0.2                 |
| Iron deficiency anaemia            | 17     | 12                     | 69.0                         | 0.0                 | 27      | 19                     | 72.4                         | 0.0                 | 44      | 31                     | 71.1                         | 0.0                 |
| Other nutritional deficiencies     | 43     | 34                     | 77.6                         | 0.0                 | 44      | 27                     | 61.4                         | 0.0                 | 88      | 61                     | 69.4                         | 0.0                 |
| Endocrine nutritional blood immune | 2,913  | 831                    | 28.5                         | 0.7                 | 4,135   | 1,502                  | 36.3                         | 1.2                 | 7,048   | 2,333                  | 33.1                         | 1.0                 |
| Other interstitial lung            | 861    | 385                    | 44.7                         | 0.3                 | 833     | 489                    | 58.7                         | 0.4                 | 1,694   | 874                    | 51.6                         | 0.4                 |
| Other respiratory                  | 2,468  | 1,054                  | 42.7                         | 0.9                 | 2,117   | 1,195                  | 56.5                         | 1.0                 | 4,585   | 2,250                  | 49.1                         | 1.0                 |
| Other digestive diseases           | 1,629  | 589                    | 36.2                         | 0.5                 | 1,424   | 586                    | 41.1                         | 0.5                 | 3,053   | 1,175                  | 38.5                         | 0.5                 |
| Other neurological conditions      | 578    | 273                    | 47.3                         | 0.2                 | 566     | 298                    | 52.6                         | 0.2                 | 1,144   | 571                    | 49.9                         | 0.2                 |
| Ill-defined                        | 48,563 | 28,499                 | 58.7                         | 25.0                | 54,987  | 28,659                 | 52.1                         | 23.6                | 103,550 | 57,157                 | 55.2                         | 24.3                |
| Protein-energy malnutrition        | 1,759  | 396                    | 22.5                         | 0.3                 | 1,662   | 285                    | 17.2                         | 0.2                 | 3,421   | 681                    | 19.9                         | 0.3                 |
| Estimated AIDS                     |        | 114,177                |                              | 100.0               |         | 121,391                |                              | 100.0               |         | 235,569                |                              | 100.0               |

**Table F.14: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 2010**

| Cause of death                     | Males  |                        |                              |                     | Females |                        |                              |                     | Persons |                        |                              |                     |
|------------------------------------|--------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|
|                                    | Total  | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 9,622  |                        |                              | 9.5                 | 10,390  |                        |                              | 9.8                 | 20,012  |                        |                              | 9.6                 |
| HIV/AIDS pseudonyms                | 14,560 |                        |                              | 14.4                | 16,932  |                        |                              | 15.9                | 31,493  |                        |                              | 15.2                |
| Tuberculosis                       | 39,501 | 25,823                 | 65.4                         | 25.5                | 31,063  | 24,165                 | 77.8                         | 22.7                | 70,564  | 49,988                 | 70.8                         | 24.1                |
| Sexually transmitted exc HIV       | 53     | 26                     | 49.3                         | 0.0                 | 181     | 127                    | 70.0                         | 0.1                 | 234     | 153                    | 65.4                         | 0.1                 |
| Diarrhoeal diseases                | 16,335 | 7,744                  | 47.4                         | 7.6                 | 17,869  | 9,211                  | 51.5                         | 8.7                 | 34,205  | 16,955                 | 49.6                         | 8.2                 |
| Selected vaccine preventable       | 277    | 229                    | 82.5                         | 0.2                 | 244     | 206                    | 84.2                         | 0.2                 | 522     | 435                    | 83.3                         | 0.2                 |
| Meningitis and encephalitis        | 4,482  | 174                    | 3.9                          | 0.2                 | 4,625   | 812                    | 17.6                         | 0.8                 | 9,108   | 986                    | 10.8                         | 0.5                 |
| Septicaemia                        | 2,745  | 366                    | 13.3                         | 0.4                 | 3,274   | 650                    | 19.9                         | 0.6                 | 6,019   | 1,016                  | 16.9                         | 0.5                 |
| Other infectious diseases          | 754    | 485                    | 64.4                         | 0.5                 | 838     | 604                    | 72.0                         | 0.6                 | 1,592   | 1,089                  | 68.4                         | 0.5                 |
| Lower respiratory infections       | 25,682 | 13,909                 | 54.2                         | 13.7                | 25,727  | 15,258                 | 59.3                         | 14.3                | 51,409  | 29,167                 | 56.7                         | 14.0                |
| Adult respiratory distress         | 301    | 195                    | 64.7                         | 0.2                 | 330     | 220                    | 66.6                         | 0.2                 | 631     | 415                    | 65.7                         | 0.2                 |
| Iron deficiency anaemia            | 9      | 7                      | 77.5                         | 0.0                 | 15      | 11                     | 72.9                         | 0.0                 | 23      | 17                     | 74.6                         | 0.0                 |
| Other nutritional deficiencies     | 36     | 27                     | 74.6                         | 0.0                 | 53      | 41                     | 78.2                         | 0.0                 | 89      | 68                     | 76.7                         | 0.0                 |
| Endocrine nutritional blood immune | 2,716  | 648                    | 23.9                         | 0.6                 | 3,861   | 1,248                  | 32.3                         | 1.2                 | 6,577   | 1,896                  | 28.8                         | 0.9                 |
| Other interstitial lung            | 434    | 83                     | 19.1                         | 0.1                 | 353     | 121                    | 34.1                         | 0.1                 | 787     | 203                    | 25.8                         | 0.1                 |
| Other respiratory                  | 1,912  | 636                    | 33.3                         | 0.6                 | 1,537   | 742                    | 48.3                         | 0.7                 | 3,449   | 1,378                  | 40.0                         | 0.7                 |
| Other digestive diseases           | 1,556  | 504                    | 32.4                         | 0.5                 | 1,406   | 554                    | 39.4                         | 0.5                 | 2,962   | 1,058                  | 35.7                         | 0.5                 |
| Other neurological conditions      | 603    | 269                    | 44.6                         | 0.3                 | 509     | 269                    | 53.0                         | 0.3                 | 1,112   | 538                    | 48.4                         | 0.3                 |
| Ill-defined                        | 45,381 | 25,564                 | 56.3                         | 25.2                | 50,342  | 24,595                 | 48.9                         | 23.1                | 95,723  | 50,159                 | 52.4                         | 24.2                |
| Protein-energy malnutrition        | 1,693  | 398                    | 23.5                         | 0.4                 | 1,533   | 261                    | 17.0                         | 0.2                 | 3,225   | 659                    | 20.4                         | 0.3                 |
| Estimated AIDS                     |        | 101,269                |                              | 100.0               |         | 106,416                |                              | 100.0               |         | 207,685                |                              | 100.0               |

**Table F.15: Estimated total deaths, mis-attributed AIDS deaths and percentage of total deaths mis-attributed to AIDS for each source condition and the proportional distribution of the estimated AIDS deaths for males, females and persons, 1997 - 2010**

| Cause of death                     | Males   |                        |                              |                     | Females |                        |                              |                     | Persons   |                        |                              |                     |
|------------------------------------|---------|------------------------|------------------------------|---------------------|---------|------------------------|------------------------------|---------------------|-----------|------------------------|------------------------------|---------------------|
|                                    | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total   | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths | Total     | Mis-attributed<br>AIDS | Mis-attributed %<br>of total | % of AIDS<br>deaths |
| Reported HIV/AIDS                  | 93,778  |                        |                              | 7.0                 | 102,841 |                        |                              | 6.8                 | 196,618   |                        |                              | 6.9                 |
| HIV/AIDS pseudonyms                | 169,497 |                        |                              | 12.6                | 210,752 |                        |                              | 13.9                | 380,249   |                        |                              | 13.3                |
| Tuberculosis                       | 531,937 | 339,892                | 63.9                         | 25.2                | 420,696 | 325,930                | 77.5                         | 21.6                | 952,633   | 665,822                | 69.9                         | 23.3                |
| Sexually transmitted exc HIV       | 917     | 544                    | 59.3                         | 0.0                 | 3,493   | 2,554                  | 73.1                         | 0.2                 | 4,410     | 3,098                  | 70.3                         | 0.1                 |
| Diarrhoeal diseases                | 252,209 | 139,561                | 55.3                         | 10.3                | 290,477 | 176,357                | 60.7                         | 11.7                | 542,686   | 315,919                | 58.2                         | 11.0                |
| Selected vaccine preventable       | 1,871   | 1,401                  | 74.9                         | 0.1                 | 1,913   | 1,437                  | 75.1                         | 0.1                 | 3,784     | 2,838                  | 75.0                         | 0.1                 |
| Meningitis and encephalitis        | 53,861  | 2,022                  | 3.8                          | 0.1                 | 56,504  | 11,813                 | 20.9                         | 0.8                 | 110,365   | 13,835                 | 12.5                         | 0.5                 |
| Septicaemia                        | 31,079  | 3,856                  | 12.4                         | 0.3                 | 34,653  | 6,472                  | 18.7                         | 0.4                 | 65,732    | 10,328                 | 15.7                         | 0.4                 |
| Other infectious diseases          | 11,279  | 7,569                  | 67.1                         | 0.6                 | 12,766  | 9,576                  | 75.0                         | 0.6                 | 24,045    | 17,145                 | 71.3                         | 0.6                 |
| Lower respiratory infections       | 359,437 | 208,803                | 58.1                         | 15.5                | 378,369 | 245,162                | 64.8                         | 16.2                | 737,806   | 453,965                | 61.5                         | 15.9                |
| Adult respiratory distress         | 2,770   | 1,666                  | 60.1                         | 0.1                 | 2,806   | 1,993                  | 71.0                         | 0.1                 | 5,575     | 3,659                  | 65.6                         | 0.1                 |
| Iron deficiency anaemia            | 141     | 108                    | 76.6                         | 0.0                 | 272     | 196                    | 72.1                         | 0.0                 | 413       | 304                    | 73.6                         | 0.0                 |
| Other nutritional deficiencies     | 1,274   | 820                    | 64.4                         | 0.1                 | 1,502   | 987                    | 65.7                         | 0.1                 | 2,776     | 1,807                  | 65.1                         | 0.1                 |
| Endocrine nutritional blood immune | 32,694  | 8,741                  | 26.7                         | 0.6                 | 47,690  | 17,321                 | 36.3                         | 1.1                 | 80,384    | 26,063                 | 32.4                         | 0.9                 |
| Other interstitial lung            | 12,451  | 5,933                  | 47.7                         | 0.4                 | 11,796  | 7,702                  | 65.3                         | 0.5                 | 24,247    | 13,635                 | 56.2                         | 0.5                 |
| Other respiratory                  | 31,073  | 13,568                 | 43.7                         | 1.0                 | 26,386  | 15,218                 | 57.7                         | 1.0                 | 57,459    | 28,786                 | 50.1                         | 1.0                 |
| Other digestive diseases           | 20,574  | 6,086                  | 29.6                         | 0.5                 | 17,182  | 6,643                  | 38.7                         | 0.4                 | 37,756    | 12,729                 | 33.7                         | 0.4                 |
| Other neurological conditions      | 7,147   | 3,268                  | 45.7                         | 0.2                 | 6,163   | 3,221                  | 52.3                         | 0.2                 | 13,310    | 6,489                  | 48.8                         | 0.2                 |
| Ill-defined                        | 618,978 | 332,625                | 53.7                         | 24.7                | 700,847 | 357,719                | 51.0                         | 23.7                | 1,319,825 | 690,344                | 52.3                         | 24.1                |
| Protein-energy malnutrition        | 28,532  | 8,862                  | 31.1                         | 0.7                 | 26,341  | 7,782                  | 29.5                         | 0.5                 | 54,873    | 16,644                 | 30.3                         | 0.6                 |
| Estimated AIDS                     |         | 1,348,601              |                              | 100.0               |         | 1,511,676              |                              | 100.0               |           | 2,860,277              |                              | 100.0               |