

**Table 3: Seasonal increase in mortality in the winter<sup>1,2</sup> and the Increased Winter Mortality Index<sup>3,4</sup>, by age-group and NHS Board<sup>5</sup> area of usual residence, 2007/08 to 2016/17**

**Scotland**

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	2,180	130	320	880	850	12	3	9	16	17
2008/09	3,510	370	590	1,170	1,370	21	10	18	22	28
2009/10	2,760	460	370	890	1,040	16	13	11	17	21
2010/11	2,450	410	430	720	890	14	12	13	14	17
2011/12	1,420	230	110	440	650	8	7	3	8	12
2012/13	2,000	90	190	600	1,120	11	3	6	11	20
2013/14	1,600	140	210	530	730	9	4	6	10	14
2014/15	4,060	270	610	1,240	1,940	23	8	18	23	33
2015/16	2,850	450	530	910	970	16	13	16	17	17
2016/17 (P)	2,720	200	280	810	1,430	15	6	8	15	24

**Ayrshire & Arran**

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	140	-10	30	40	90	10	.	9	8	23
2008/09	380	30	50	160	140	29	11	19	42	35
2009/10	190	10	10	90	70	14	4	5	23	19
2010/11	200	20	30	70	90	15	6	13	15	22
2011/12	70	-10	20	60	-10	5	.	9	16	.
2012/13	150	-30	10	80	90	10	.	4	17	21
2013/14	160	50	10	20	80	11	19	3	5	19
2014/15	300	10	30	120	130	21	6	10	27	29
2015/16	180	0	60	90	30	13	0	20	23	7
2016/17 (P)	240	0	30	40	170	17	1	12	8	40

**Borders**

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	80	20	10	0	40	19	32	19	0	36
2008/09	100	10	20	40	30	24	15	23	34	21
2009/10	50	-10	10	20	30	12	.	9	18	25
2010/11	70	10	20	10	30	19	21	39	6	22
2011/12	40	-10	20	20	10	9	.	26	19	4
2012/13	70	0	-10	40	40	16	.	.	31	24
2013/14	10	-10	-10	10	20	3	.	.	11	11
2014/15	120	10	20	30	60	28	23	30	19	36
2015/16	70	0	20	20	30	19	5	31	19	19
2016/17 (P)	60	10	20	0	20	14	21	28	3	14

**Dumfries & Galloway**

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	90	30	10	30	20	16	37	7	13	15
2008/09	140	20	30	40	40	25	23	29	25	24
2009/10	100	10	10	30	50	18	12	12	17	27
2010/11	50	20	10	10	20	8	17	7	4	9
2011/12	20	-20	-20	10	40	3	.	.	6	19
2012/13	40	0	-10	20	40	7	.	.	10	18
2013/14	110	20	30	20	40	19	24	28	10	21
2014/15	160	10	30	50	60	26	18	23	28	29
2015/16	130	20	30	20	50	23	30	28	13	27
2016/17 (P)	130	-10	30	60	50	22	.	29	34	21

**Footnotes**

1) The 'Seasonal Increase in Mortality in the Winter' has been defined as the difference between the number of deaths in the four 'winter' months (December - March) and the average of the numbers of deaths in the preceding (August - November) and following (April - July) non-winter four-month periods. A negative figure occurs when there were fewer deaths during the winter period than the average of the two 'non-winter' periods.

2) Because of the approximate nature of this measure, numbers have been rounded independently to the nearest 10. The sum of the age group figures may therefore appear to differ from the 'all ages' total.

3) The Increased Winter Mortality (IWM) Index is the (unrounded) number of 'additional' winter deaths divided by the (unrounded) average number of deaths in a four month 'non-winter' period, expressed as a percentage.

4) The IWM Index has not been calculated when the number of 'additional' winter deaths was negative.

5) The statistics for each board's area are based on the boundaries that apply with effect from 1 April 2014. Figures for earlier years show what the numbers would have been had the new boundaries applied in those years (and up to 2012-13 have been revised, where appropriate, from what was published up until Autumn 2013). Figures for 'Greater Glasgow & Clyde' and 'Highland' include deaths in the relevant parts of the former NHS Argyll and Clyde area.

(P) Data for the latest year are provisional.

Table 3 (Continued)

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
<b>Fife</b>										
2007/08	210	10	10	80	110	17	3	3	21	33
2008/09	280	10	60	80	130	23	6	25	21	36
2009/10	190	30	40	60	60	16	14	17	16	16
2010/11	90	30	-10	50	20	7	13	.	12	6
2011/12	120	20	50	-10	60	10	8	23	.	15
2012/13	140	-10	60	30	70	11	.	27	7	16
2013/14	40	0	-10	0	50	3	2	.	1	13
2014/15	250	0	30	90	130	20	2	14	24	31
2015/16	230	30	40	110	50	18	15	17	30	12
2016/17 (P)	160	0	30	60	70	12	.	11	16	16
<b>Forth Valley</b>										
	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	110	20	-10	50	60	12	9	.	15	21
2008/09	280	40	40	90	110	32	21	23	32	45
2009/10	100	20	20	-10	70	11	14	10	.	25
2010/11	140	30	30	30	40	15	16	18	11	17
2011/12	60	0	-10	40	30	6	.	.	13	10
2012/13	90	10	-20	30	60	9	7	.	11	22
2013/14	70	-10	10	30	50	8	.	4	11	16
2014/15	230	30	20	60	130	25	15	10	18	46
2015/16	150	40	-10	100	30	15	19	.	33	10
2016/17 (P)	70	10	0	20	40	7	4	1	5	14
<b>Grampian</b>										
	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	250	20	50	100	70	15	7	16	19	14
2008/09	270	20	50	60	150	16	5	16	11	30
2009/10	210	40	30	50	100	13	12	10	9	18
2010/11	250	20	40	80	120	15	6	15	15	22
2011/12	180	40	10	70	70	11	14	2	13	12
2012/13	170	30	30	-10	120	10	9	10	.	22
2013/14	230	20	50	60	110	14	6	18	10	20
2014/15	430	10	60	100	260	24	4	19	18	44
2015/16	270	30	40	50	140	15	9	14	11	24
2016/17 (P)	280	20	-30	110	180	16	6	.	21	29
<b>Greater Glasgow &amp; Clyde<sup>5</sup></b>										
	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	560	50	90	230	200	14	5	10	18	19
2008/09	740	100	140	180	320	19	11	18	15	31
2009/10	540	120	60	200	160	14	14	8	17	15
2010/11	560	130	90	140	210	14	14	12	12	20
2011/12	250	40	30	60	120	6	4	4	5	10
2012/13	410	40	20	100	250	10	4	2	8	22
2013/14	300	0	100	110	90	8	.	14	9	8
2014/15	950	110	170	290	390	24	13	24	24	33
2015/16	560	120	70	180	190	14	15	9	15	17
2016/17 (P)	530	30	40	180	280	13	4	6	15	24

**Footnotes**

- 1) The 'Seasonal Increase in Mortality in the Winter' has been defined as the difference between the number of deaths in the four 'winter' months (December - March) and the average of the numbers of deaths in the preceding (August - November) and following (April - July) non-winter four-month periods. A negative figure occurs when there were fewer deaths during the winter period than the average of the two 'non-winter' periods.
- 2) Because of the approximate nature of this measure, numbers have been rounded independently to the nearest 10. The sum of the age group figures may therefore appear to differ from the 'all ages' total.
- 3) The Increased Winter Mortality (IWM) Index is the (unrounded) number of 'additional' winter deaths divided by the (unrounded) average number of deaths in a four month 'non-winter' period, expressed as a percentage.
- 4) The IWM Index has not been calculated when the number of 'additional' winter deaths was negative.
- (P) Data for the latest year are provisional.
- 5) The statistics for each board's area are based on the boundaries that apply with effect from 1 April 2014. Figures for earlier years show what the numbers would have been had the new boundaries applied in those years (and up to 2012-13 have been revised, where appropriate, from what was published up until Autumn 2013). Figures for 'Greater Glasgow & Clyde' and 'Highland' include deaths in the relevant parts of the former NHS Argyll and Clyde area.

Table 3 (Continued)

Highland<sup>o</sup>

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	80	0	0	-10	80	7	0	1	.	26
2008/09	150	0	40	30	70	13	1	18	10	23
2009/10	200	40	30	50	80	19	20	13	15	25
2010/11	110	10	40	20	40	10	3	22	6	12
2011/12	90	20	-10	40	40	8	10	.	11	11
2012/13	140	20	10	60	60	13	9	4	19	15
2013/14	100	0	30	40	40	10	0	15	13	11
2014/15	130	-40	30	50	90	11	.	12	14	22
2015/16	290	60	60	60	110	27	30	29	20	30
2016/17 (P)	190	10	10	70	100	17	3	6	21	26

## Lanarkshire

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	280	-20	40	190	70	13	.	10	29	12
2008/09	520	90	100	200	140	26	19	23	33	27
2009/10	460	110	60	170	120	22	24	14	26	24
2010/11	330	50	70	90	120	16	12	16	14	23
2011/12	210	50	-20	60	110	10	12	.	10	18
2012/13	300	30	60	110	110	14	6	14	15	18
2013/14	210	20	0	80	110	10	5	0	12	18
2014/15	510	20	120	170	210	23	4	27	23	33
2015/16	360	30	100	100	130	17	7	24	15	21
2016/17 (P)	340	70	30	110	140	15	15	6	15	21

## Lothian

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	220	10	50	90	70	9	3	13	11	9
2008/09	420	30	70	170	150	18	5	17	24	20
2009/10	380	40	60	110	170	17	9	14	15	25
2010/11	390	90	50	150	100	17	19	11	22	14
2011/12	210	80	10	30	90	8	16	2	4	11
2012/13	290	-10	50	100	140	12	.	12	14	17
2013/14	280	40	0	110	130	12	10	.	16	17
2014/15	480	30	50	160	240	20	7	12	22	28
2015/16	320	50	120	80	80	13	10	27	11	10
2016/17 (P)	320	30	60	60	170	13	7	15	8	20

## Orkney

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	0	0	-10	10	0	1	16	.	30	13
2008/09	10	0	10	-10	10	14	9	42	.	51
2009/10	0	0	0	0	0	.	9	.	8	.
2010/11	10	10	0	10	0	19	58	.	37	11
2011/12	-10	0	0	-10	0	.	5	4	.	19
2012/13	10	0	0	0	0	9	8	.	13	15
2013/14	10	10	0	0	-10	11	100	14	10	.
2014/15	10	0	0	10	10	17	27	.	33	24
2015/16	0	0	0	10	0	6	4	8	41	.
2016/17 (P)	0	0	10	-10	0	.	4	46	.	.

## Footnotes

1) The 'Seasonal Increase in Mortality in the Winter' has been defined as the difference between the number of deaths in the four 'winter' months (December - March) and the average of the numbers of deaths in the preceding (August - November) and following (April - July) non-winter four-month periods. A negative figure occurs when there were fewer deaths during the winter period than the average of the two 'non-winter' periods.

2) Because of the approximate nature of this measure, numbers have been rounded independently to the nearest 10. The sum of the age group figures may therefore appear to differ from the 'all ages' total.

3) The Increased Winter Mortality (IWM) Index is the (unrounded) number of 'additional' winter deaths divided by the (unrounded) average number of deaths in a four month 'non-winter' period, expressed as a percentage.

4) The IWM Index has not been calculated when the number of 'additional' winter deaths was negative.

5) The statistics for each board's area are based on the boundaries that apply with effect from 1 April 2014. Figures for earlier years show what the numbers would have been had the new boundaries applied in those years (and up to 2012-13 have been revised, where appropriate, from what was published up until Autumn 2013). Figures for 'Greater Glasgow & Clyde' and 'Highland' include deaths in the relevant parts of the former NHS Argyll and Clyde area.

(P) Data for the latest year are provisional.

Table 3 (Continued)

## Shetland

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	10	0	0	10	0	10	4	.	50	5
2008/09	0	-10	0	0	10	2	.	29	.	28
2009/10	10	0	0	0	10	17	29	.	12	28
2010/11	10	0	0	10	0	17	36	25	43	.
2011/12	-10	0	0	0	0	.	.	.	.	.
2012/13	0	-10	0	10	0	.	.	13	44	.
2013/14	0	0	0	0	10	6	3	.	.	54
2014/15	20	0	0	10	10	23	10	.	32	45
2015/16	10	0	0	10	0	8	36	.	26	.
2016/17 (P)	10	0	0	0	10	17	38	26	.	37

## Tayside

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	150	-20	50	70	50	10	.	19	14	11
2008/09	220	40	0	90	100	16	15	.	20	22
2009/10	300	30	50	100	130	22	11	20	23	28
2010/11	220	0	40	70	110	16	0	17	16	24
2011/12	180	10	20	70	80	12	4	8	16	16
2012/13	190	20	-10	40	140	13	7	.	8	28
2013/14	80	0	10	40	20	6	1	6	10	5
2014/15	430	40	50	130	210	30	17	20	30	41
2015/16	240	60	10	70	110	16	22	2	16	22
2016/17 (P)	340	30	30	110	180	23	11	10	25	34

## Western Isles

	Seasonal increase in mortality in the winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2007/08	10	10	0	20	-10	5	23	.	48	.
2008/09	10	-10	0	20	-10	8	.	12	61	.
2009/10	40	10	10	20	0	35	53	29	84	.
2010/11	0	0	0	0	-10	.	.	24	3	.
2011/12	30	10	10	0	10	20	53	22	.	29
2012/13	20	10	10	0	10	15	52	37	.	15
2013/14	-10	0	-10	10	0	.	.	.	21	.
2014/15	30	20	0	10	10	31	94	17	30	14
2015/16	40	10	10	10	10	38	44	59	27	32
2016/17 (P)	30	0	10	10	10	31	24	35	29	34

## Footnotes

1) The 'Seasonal Increase in Mortality in the Winter' has been defined as the difference between the number of deaths in the four 'winter' months (December - March) and the average of the numbers of deaths in the preceding (August - November) and following (April - July) non-winter four-month periods. A negative figure occurs when there were fewer deaths during the winter period than the average of the two 'non-winter' periods.

2) Because of the approximate nature of this measure, numbers have been rounded independently to the nearest 10. The sum of the age group figures may therefore appear to differ from the 'all ages' total.

3) The Increased Winter Mortality (IWM) Index is the (unrounded) number of 'additional' winter deaths divided by the (unrounded) average number of deaths in a four month 'non-winter' period, expressed as a percentage.

4) The IWM Index has not been calculated when the number of 'additional' winter deaths was negative.

5) The statistics for each board's area are based on the boundaries that apply with effect from 1 April 2014. Figures for earlier years show what the numbers would have been had the new boundaries applied in those years (and up to 2012-13 have been revised, where appropriate, from what was published up until Autumn 2013). Figures for 'Greater Glasgow & Clyde' and 'Highland' include deaths in the relevant parts of the former NHS Argyll and Clyde area.

(P) Data for the latest year are provisional.