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### **Perinatal and Infant Mortality Rates - 2005 Update**

This document provides the latest update of the perinatal & infant mortality rates for England & Wales, West Midlands and the three former SHAs.

The information is derived from

- VSOB data for 2005 from ONS, released September 2006
- Denominator data from ONS
- Data from our Perinatal Death Notifications (PDN) collected regionally. PDN rates can be slightly different due to our ongoing process of ascertainment, and have undergone additional checks on geographical boundaries, postmortems etc.

The analysis includes yearly rates and three-year moving averages, and is summarised for stillbirths, early neonatal deaths and perinatal and infant mortality.

Each PCT and related provider unit is currently being sent data specific to their own area. The information is also accessible on [www.pi.nhs.uk/pnm/](http://www.pi.nhs.uk/pnm/).

The Perinatal Institute is preparing a more detailed report, to be released in the first quarter of 2007, which will include an up-to-date analysis of causes, conditions, social deprivation and associated trends in perinatal / infant mortality.

With sincere regards,

Professor Jason Gardosi  
Director, Perinatal Institute

**Page 2 Perinatal Death Rates in West Midlands, 1998-2005**

Perinatal death rates - ONS

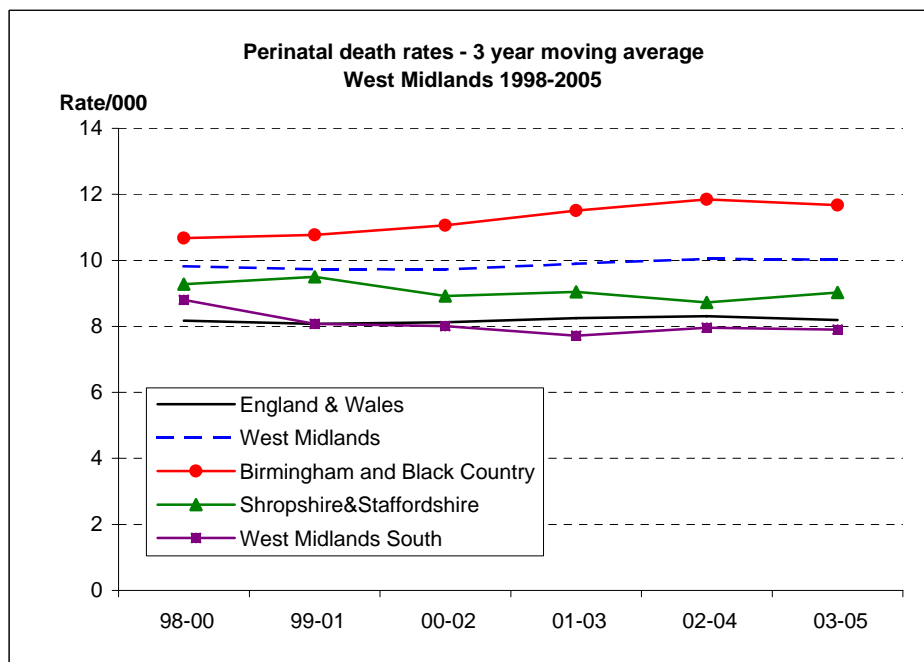
	2002	2003	2004	2005
England & Wales	8.3 8.1 - 8.6	8.5 8.2 - 8.7	8.1 7.9 - 8.4	8.0 7.8 - 8.2
West Midlands	10.1 9.3 - 10.9	10.1 9.4 - 10.9	9.5 8.8 - 10.2	9.9 9.2 - 10.7
Birmingham and Black Country	11.8 10.7 - 13.1	12.1 10.9 - 13.4	11.3 10.2 - 12.5	11.1 10.0 - 12.3
Shropshire&Staffordshire	8.3 7.0 - 9.9	9.3 7.9 - 10.9	7.6 6.4 - 9.0	9.3 8.0 - 10.9
West Midlands South	8.6 7.3 - 10.1	7.2 6.1 - 8.7	7.9 6.7 - 9.4	8.2 7.0 - 9.7

Perinatal death rates - PDN (England & Wales - ONS)

	1998	1999	2000	2001	2002	2003	2004	2005
England & Wales	8.2 8.0 - 8.4	8.2 8.0 - 8.4	8.1 7.9 - 8.3	7.9 7.7 - 8.2	8.3 8.1 - 8.6	8.5 8.2 - 8.7	8.1 7.9 - 8.4	8.0 7.8 - 8.2
West Midlands	9.5 8.8 - 10.2	10.2 9.4 - 11.0	9.8 9.1 - 10.6	9.2 8.5 - 10.0	10.2 9.4 - 11.0	10.3 9.6 - 11.1	9.6 8.9 - 10.4	10.1 9.4 - 10.9
Birmingham and Black Country	9.9 8.8 - 11.0	11.1 10.0 - 12.4	11.1 9.9 - 12.3	10.1 9.1 - 11.3	12.0 10.8 - 13.3	12.4 11.2 - 13.7	11.1 10.1 - 12.4	11.5 10.4 - 12.7
Shropshire&Staffordshire	8.9 7.6 - 10.4	9.9 8.5 - 11.5	9.1 7.7 - 10.7	9.6 8.1 - 11.2	8.1 6.8 - 9.7	9.4 8.1 - 11.1	8.6 7.3 - 10.1	9.0 7.7 - 10.6
West Midlands South	9.3 8.0 - 10.9	8.9 7.6 - 10.4	8.2 6.9 - 9.7	7.1 6.0 - 8.6	8.7 7.4 - 10.3	7.3 6.1 - 8.7	7.9 6.7 - 9.3	8.5 7.3 - 10.0

Perinatal death rates - 3 year moving average - PDN (England & Wales - ONS)

	98-00	99-01	00-02	01-03	02-04	03-05
England & Wales	8.2 8.0 - 8.4	8.1 7.9 - 8.3	8.1 7.9 - 8.4	8.2 8.0 - 8.5	8.3 8.1 - 8.5	8.2 8.0 - 8.4
West Midlands	9.8 9.1 - 10.6	9.7 9.0 - 10.5	9.7 9.0 - 10.5	9.9 9.2 - 10.7	10.0 9.3 - 10.8	10.0 9.3 - 10.8
Birmingham and Black Country	10.7 9.6 - 11.9	10.8 9.7 - 12.0	11.1 9.9 - 12.3	11.5 10.4 - 12.8	11.8 10.7 - 13.1	11.7 10.5 - 12.9
Shropshire&Staffordshire	9.3 7.9 - 10.9	9.5 8.1 - 11.1	8.9 7.6 - 10.5	9.0 7.7 - 10.7	8.7 7.4 - 10.3	9.0 7.7 - 10.6
West Midlands South	8.8 7.5 - 10.3	8.1 6.8 - 9.6	8.0 6.8 - 9.5	7.7 6.5 - 9.2	8.0 6.7 - 9.4	7.9 6.7 - 9.4



**Page 3 Infant Death Rates in West Midlands, 1998-2005**

Infant death rates - ONS

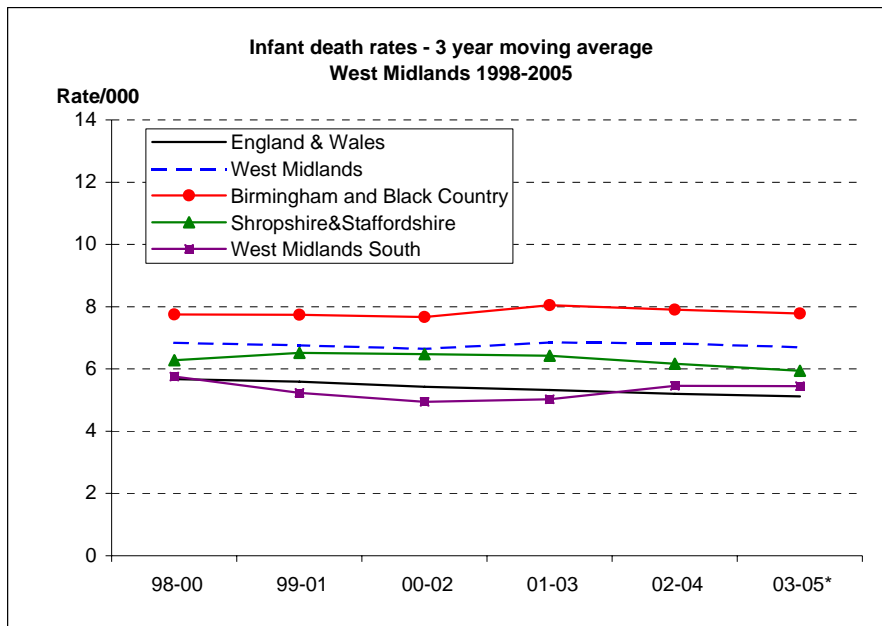
	2002	2003	2004	2005
England & Wales	5.3 5.1 - 5.5	5.3 5.1 - 5.5	5.1 4.9 - 5.2	5.0 4.9 - 5.2
West Midlands	6.5 5.9 - 7.2	7.3 6.6 - 8.0	6.8 6.2 - 7.4	6.4 5.9 - 7.1
Birmingham and Black Country	7.9 6.9 - 8.9	8.6 7.6 - 9.7	7.5 6.6 - 8.5	7.6 6.7 - 8.6
Shropshire&Staffordshire	5.9 4.8 - 7.2	6.9 5.8 - 8.3	5.6 4.6 - 6.9	5.7 4.7 - 7.0
West Midlands South	4.7 3.7 - 5.9	5.2 4.2 - 6.4	6.4 5.3 - 7.7	5.0 4.1 - 6.2

Infant death rates - PDN (England & Wales - ONS)

	1998	1999	2000	2001	2002	2003	2004	2005*
England & Wales	5.7 5.5 - 5.9	5.8 5.6 - 6.0	5.6 5.4 - 5.8	5.4 5.3 - 5.6	5.3 5.1 - 5.5	5.3 5.1 - 5.5	5.1 4.9 - 5.2	5.0 4.9 - 5.2
West Midlands	6.6 6.1 - 7.3	7.0 6.4 - 7.7	6.9 6.2 - 7.6	6.4 5.8 - 7.1	6.7 6.1 - 7.3	7.5 6.8 - 8.2	6.3 5.8 - 7.0	6.3 5.7 - 6.9
Birmingham and Black Country	7.5 6.6 - 8.6	8.0 7.1 - 9.1	7.7 6.8 - 8.8	7.5 6.6 - 8.5	7.8 6.9 - 8.9	8.9 7.9 - 10.0	7.0 6.2 - 8.0	7.4 6.6 - 8.4
Shropshire&Staffordshire	5.3 4.3 - 6.5	6.5 5.3 - 7.8	7.1 5.9 - 8.5	6.0 4.9 - 7.4	6.3 5.2 - 7.7	6.9 5.8 - 8.3	5.2 4.2 - 6.4	5.7 4.6 - 6.9
West Midlands South	6.4 5.3 - 7.7	5.7 4.7 - 7.0	5.2 4.2 - 6.4	4.8 3.8 - 6.0	4.9 3.9 - 6.1	5.4 4.4 - 6.6	6.1 5.0 - 7.4	4.8 3.9 - 6.0

Infant death rates - 3 year moving average - PDN (England & Wales - ONS)

	98-00	99-01	00-02	01-03	02-04	03-05*
England & Wales	5.7 5.5 - 5.9	5.6 5.4 - 5.8	5.4 5.2 - 5.6	5.3 5.1 - 5.5	5.2 5.0 - 5.4	5.1 4.9 - 5.3
West Midlands	6.8 6.2 - 7.5	6.8 6.2 - 7.4	6.6 6.0 - 7.3	6.9 6.2 - 7.5	6.7 6.2 - 7.5	6.7 6.1 - 7.4
Birmingham and Black Country	7.7 6.8 - 8.8	7.7 6.8 - 8.8	7.7 6.7 - 8.7	8.1 7.1 - 9.1	7.9 7.0 - 8.9	7.8 6.9 - 8.8
Shropshire&Staffordshire	6.3 5.2 - 7.6	6.5 5.4 - 7.9	6.5 5.3 - 7.9	6.4 5.3 - 7.8	6.2 5.1 - 7.5	5.9 4.9 - 7.2
West Midlands South	5.8 4.7 - 7.0	5.2 4.2 - 6.5	4.9 4.0 - 6.2	5.0 4.1 - 6.2	5.5 4.5 - 6.7	5.4 4.5 - 6.7



Note: \* Postneonatal (and therefore infant) deaths are not necessarily complete for 2005

**Page 4 Stillbirth Rates in West Midlands, 1998-2005**

Stillbirth rates - ONS

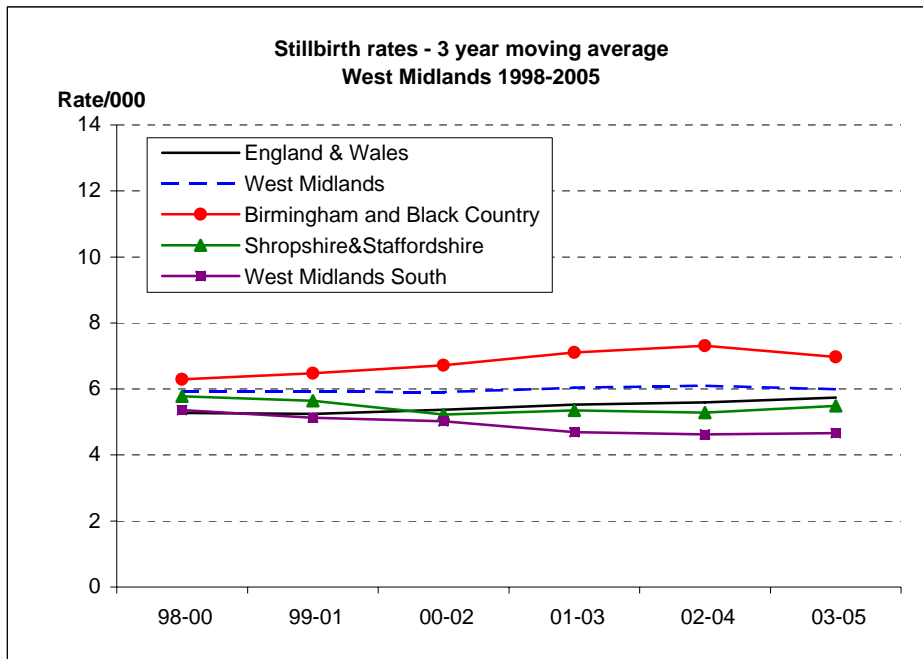
	2002	2003	2004	2005
England & Wales	5.6 5.4 - 5.8	5.7 5.5 - 5.9	5.5 5.3 - 5.7	5.4 5.2 - 5.5
West Midlands	6.2 5.6 - 6.9	6.0 5.5 - 6.7	5.5 5.0 - 6.1	5.9 5.4 - 6.6
Birmingham and Black Country	7.3 6.4 - 8.3	7.4 6.5 - 8.4	6.9 6.0 - 7.8	6.4 5.6 - 7.3
Shropshire&Staffordshire	5.2 4.2 - 6.5	5.2 4.2 - 6.5	4.4 3.5 - 5.5	5.8 4.8 - 7.1
West Midlands South	5.3 4.3 - 6.5	4.3 3.4 - 5.4	4.2 3.4 - 5.3	5.2 4.2 - 6.4

Stillbirth rates - PDN (England & Wales - ONS)

	1998	1999	2000	2001	2002	2003	2004	2005
England & Wales	5.3 5.2 - 5.5	5.3 5.1 - 5.4	5.2 5.0 - 5.4	5.3 5.1 - 5.5	5.6 5.4 - 5.8	5.7 5.5 - 5.9	5.5 5.3 - 5.7	5.4 5.2 - 5.5
West Midlands	5.6 5.1 - 6.2	6.4 5.8 - 7.0	5.7 5.2 - 6.4	5.6 5.0 - 6.2	6.4 5.8 - 7.0	6.1 5.6 - 6.8	5.8 5.2 - 6.4	6.0 5.5 - 6.6
Birmingham and Black Country	5.7 4.9 - 6.6	6.8 5.9 - 7.8	6.4 5.6 - 7.4	6.2 5.4 - 7.2	7.5 6.6 - 8.6	7.6 6.7 - 8.6	6.8 6.0 - 7.8	6.5 5.7 - 7.4
Shropshire&Staffordshire	6.0 4.9 - 7.3	6.4 5.3 - 7.7	5.0 4.0 - 6.2	5.6 4.5 - 6.9	5.1 4.1 - 6.4	5.3 4.3 - 6.6	5.4 4.4 - 6.6	5.7 4.7 - 7.0
West Midlands South	5.2 4.2 - 6.4	5.6 4.6 - 6.9	5.3 4.3 - 6.5	4.5 3.6 - 5.6	5.3 4.3 - 6.6	4.3 3.4 - 5.4	4.3 3.4 - 5.4	5.5 4.5 - 6.7

Stillbirth rates - 3 year moving average - PDN (England & Wales - ONS)

	98-00	99-01	00-02	01-03	02-04	03-05
England & Wales	5.3 5.1 - 5.5	5.2 5.1 - 5.4	5.4 5.2 - 5.6	5.5 5.3 - 5.7	5.6 5.4 - 5.8	5.7 5.3 - 5.7
West Midlands	5.9 5.4 - 6.5	5.9 5.3 - 6.5	5.9 5.3 - 6.5	6.0 5.5 - 6.7	6.1 5.5 - 6.7	6.0 5.4 - 6.6
Birmingham and Black Country	6.3 5.5 - 7.2	6.5 5.6 - 7.5	6.7 5.9 - 7.7	7.1 6.2 - 8.1	7.3 6.4 - 8.3	7.0 6.1 - 7.9
Shropshire&Staffordshire	5.8 4.7 - 7.1	5.6 4.6 - 7.0	5.2 4.2 - 6.5	5.4 4.3 - 6.6	5.3 4.3 - 6.5	5.5 4.5 - 6.7
West Midlands South	5.4 4.4 - 6.6	5.1 4.2 - 6.3	5.0 4.0 - 6.2	4.7 3.7 - 5.9	4.6 3.7 - 5.8	4.7 3.8 - 5.8



**Page 5 Early Neonatal Death Rates in West Midlands, 1998-2005**

Early neonatal death rates - ONS

	2002	2003	2004	2005
England & Wales	2.7 2.6 - 2.9	2.8 2.7 - 2.9	2.7 2.6 - 2.8	2.6 2.5 - 2.7
West Midlands	3.9 3.4 - 4.4	4.1 3.6 - 4.6	3.9 3.5 - 4.5	4.0 3.5 - 4.5
Birmingham and Black Country	4.6 3.9 - 5.4	4.7 4.0 - 5.6	4.4 3.8 - 5.2	4.7 4.0 - 5.5
Shropshire&Staffordshire	3.1 2.4 - 4.2	4.1 3.2 - 5.2	3.2 2.5 - 4.2	3.5 2.8 - 4.6
West Midlands South	3.3 2.5 - 4.3	2.9 2.2 - 3.9	3.7 2.9 - 4.8	3.0 2.3 - 4.0

Early neonatal death rates - PDN (England & Wales - ONS)

	1998	1999	2000	2001	2002	2003	2004	2005
England & Wales	2.9 2.8 - 3.0	2.9 2.8 - 3.1	2.9 2.8 - 3.0	2.7 2.6 - 2.8	2.7 2.6 - 2.9	2.8 2.7 - 2.9	2.7 2.6 - 2.8	2.6 2.5 - 2.7
West Midlands	3.9 3.4 - 4.4	3.8 3.4 - 4.4	4.1 3.6 - 4.6	3.6 3.2 - 4.1	3.8 3.4 - 4.4	4.2 3.7 - 4.7	3.9 3.4 - 4.4	4.1 3.6 - 4.6
Birmingham and Black Country	4.2 3.5 - 5.0	4.4 3.7 - 5.2	4.7 4.0 - 5.5	3.9 3.3 - 4.7	4.5 3.8 - 5.3	4.9 4.1 - 5.7	4.3 3.7 - 5.1	5.0 4.3 - 5.8
Shropshire&Staffordshire	2.9 2.2 - 3.9	3.5 2.7 - 4.5	4.1 3.3 - 5.3	4.0 3.1 - 5.1	3.0 2.3 - 4.0	4.1 3.2 - 5.2	3.2 2.5 - 4.2	3.3 2.5 - 4.3
West Midlands South	4.2 3.3 - 5.2	3.3 2.5 - 4.2	2.9 2.2 - 3.9	2.7 2.0 - 3.6	3.4 2.6 - 4.4	3.1 2.3 - 4.0	3.6 2.8 - 4.6	3.1 2.4 - 4.0

Early neonatal death rates - 3 year moving average - PDN (England & Wales - ONS)

	98-00	99-01	00-02	01-03	02-04	03-05
England & Wales	2.9 2.8 - 3.0	2.8 2.7 - 3.0	2.8 2.6 - 2.9	2.7 2.6 - 2.9	2.7 2.6 - 2.9	2.7 2.6 - 2.8
West Midlands	3.9 3.5 - 4.4	3.8 3.4 - 4.4	3.8 3.4 - 4.4	3.9 3.4 - 4.4	4.0 3.5 - 4.5	4.1 3.6 - 4.6
Birmingham and Black Country	4.4 3.7 - 5.2	4.3 3.6 - 5.1	4.4 3.7 - 5.2	4.4 3.8 - 5.3	4.6 3.9 - 5.4	4.7 4.0 - 5.6
Shropshire&Staffordshire	3.5 2.7 - 4.5	3.9 3.0 - 5.0	3.7 2.9 - 4.8	3.7 2.9 - 4.8	3.5 2.7 - 4.5	3.6 2.8 - 4.6
West Midlands South	3.5 2.7 - 4.5	3.0 2.2 - 3.9	3.0 2.3 - 4.0	3.0 2.3 - 4.0	3.4 2.6 - 4.4	3.3 2.5 - 4.2

