Babies born at the threshold of viability: changes in survival and workload over 20 years

Sarah E Seaton, Sophie King, Bradley N Manktelow, Elizabeth S Draper, David J Field

ABSTRACT
Objective To assess the care given to the babies born at the threshold of viability over the last 20 years using regional and national data.
Design Population-based retrospective study.
Setting Former ‘Trent’ health region.
Participants Babies born between 1 January 1991 and 31 December 2010 with a gestational age of 22+0 to 25+6 weeks and admitted to a neonatal unit were extracted from The Neonatal Survey. Use of respiratory support in terms of ventilation and continuous positive airway pressure (CPAP) for this group of babies was calculated as a proportion of the total used by the whole neonatal intensive care population within the defined study area.
Results The proportion of babies surviving to discharge increased significantly over time in those born at 24 and 25 weeks (p<0.01) but failed to achieve statistical significance for those at 23 weeks (p=0.08). No babies born at 22 weeks survived. The babies born at 22–25 weeks accounted for 26.3% of all ventilation and 21.5% of CPAP given.
Conclusion Our work concurs with the current UK guidelines. There could be advantages in focusing the care of babies born at 23 weeks to a small number of intensive care units to allow specialist expertise to develop in all aspects of the management of these babies. However, focusing care will not necessarily improve survival or reduce morbidity.

BACKGROUND
Although relatively small in number, babies born at or around the limit of viability generate a great deal of public interest and a range of often polarised opinions.

In recent years, the Nuffield Council for Bioethics has reviewed the evidence surrounding the appropriateness of treatment for such babies and updated UK professional guidance has been published. In broad terms, these documents suggest that before 23 weeks of gestation, intervention is not appropriate; at 23 weeks, health professionals should discuss with parents the provision of active intervention given the individual circumstances; while at 24 weeks, the broad expectation would be to proceed with active intervention and intensive care unless a baby was in very poor condition at birth.

Recently one mother has campaigned for a review of these guidelines, particularly with regard to how they relate to the care given to babies born at 21 and 22 weeks following the birth and death of her son at 21.5 weeks of gestation. In direct contrast, a recent documentary (The Price of Life, by Adam Wishart) debated the issues surrounding active intervention for babies born at 23 weeks gestation given their high mortality and equally high morbidity rate among survivors. In other countries, such as The Netherlands, current policy follows a non-interventionist stance for babies at the limits of viability.

Such differing views were a prominent part of the 2008 abortion debate. One additional factor that emerged at that time was the extent to which outcome, particularly survival, could be related to how hard a particular neonatal service tried to keep such babies alive; even though such data cannot be considered generalisable.

This area remains controversial with only limited data about the care provided to babies born at the extreme of prematurity in the UK over time.

What this paper adds
▸ Babies born at the threshold of viability create a wide range of polarised opinions regarding decisions about their care and management.
▸ Current recommendations suggest babies born at 24 weeks of gestation should normally receive active intervention while babies born at 23 weeks of gestation should be discussed with parents regarding whether such intervention is appropriate.

▸ This work demonstrates that babies of 25 weeks of gestation or less consume a very significant amount of intensive care.
▸ The resources allocated to these babies have increased over time, and survival has significantly increased in babies born at 24 and 25 weeks.
▸ There has been little change in the outcome of babies born at 23 weeks of gestation in the UK over 20 years and many ultimately die.
We have used existing national and regional datasets to explore the patterns of care provided to these babies over 20 years. This work focuses particularly on changes in the immediate decision making following birth, resource use and short-term outcome during this period.

METHODS
Data of all babies born between 1 January 1991 and 31 December 2010 with a gestational age of 22+0 to 25+6 weeks and admitted to a neonatal unit were extracted from The Neonatal Survey (TNS). TNS is an ongoing study of neonatal care activity in the East Midlands and Yorkshire regions of the UK. The inclusion criteria for the study include all babies born less than or equal to 32 weeks of gestation. The area covered by TNS has changed over time and to allow for a constant population, this work included only babies born to a mother resident in the former ‘Trent’ health region (as defined in 1990) – the original TNS population.15

Data were also obtained from the Centre for Maternal and Child Enquiries (CMACE). When first established in the early 1990s (then known as the Confidential Enquiry into Stillbirths and Deaths in Infancy), this organisation collated data from various sources concerning deaths of all infants delivered after 22 weeks gestation either born dead or who died in the first year of life. Using the data from this source it was possible to extract information for the population covered by TNS concerning the number of babies who were alive at the onset of labour, the number of babies who died during labour and the number who died before admission to a neonatal unit. Due to changes in the national inclusion criteria used by CMACE over time, this particular dataset was only available for the period 1996–2005.

Data on the number of live births in the region were obtained from the Office of National Statistics.

In order to examine time trends, the 20-year time period covered by the study was divided into four 5-year bands: 1991–1995, 1996–2000, 2001–2005 and 2006–2010. This grouping of years compensated for the small number of babies born at the extremes of prematurity. A small number of babies were discharged to hospitals not covered by TNS. Where it was possible, clinical details were used to allocate these babies as either deaths or survivors and when not possible, these babies were removed from the analysis. Babies which were deemed to have implausible birthweights for their gestational age (more than three SD from the median birthweight for their gestation and gender) were removed from the analysis.

Stacked bar charts were created to visually represent the proportion of 22+0–25+6 week fetuses that died during labour, the proportion of babies which died before admission to the neonatal unit, the proportion that died after admission and the proportion that survived to discharge as a proportion of those alive at the onset of labour. The proportion of babies 22+0 to 25+6 surviving to discharge following admission for neonatal care by week of gestational age was also investigated using a χ² test for trend.

For 22+0 to 25+6-week babies, resource use was investigated based on the proportion of key interventions (days of ventilation and CPAP) used compared to that expended on the whole neonatal intensive care population. Using a χ² test for trend, this analysis was then repeated with a focus on the proportion of care that was given to babies that ultimately died.

The median length of stay for the babies that survived and those that died was calculated by week of gestational age over time. P values were calculated using Kendall’s Tau to measure the association between length of stay in hospital and time period.

RESULTS
Between 1 January 1991 and 31 December 2010, 1659 babies were identified as admitted to neonatal intensive care and born at 22+0 to 25+6 weeks’ gestational age to a mother resident in the former Trent health region. Of these babies, 71 (4.3%) had no outcome recorded on the database as they were transferred to a hospital out of the TNS region before discharge from hospital. After clinical review of their individual data collection forms by a neonatal consultant, it was possible to allocate 62 babies an outcome (alive or dead) and these babies were then included in all analyses. The remaining nine (0.5%) were excluded. A further 16 babies were removed from the analyses because of implausible birthweights for their gestational age (more than three SD from the median for their gestational age and gender). In total, 1634 babies were included in the analysis.

From 1996 to 2005, 558 babies of the specified gestational age were identified by CMACE as having died before admission to the neonatal unit. Of these, 72 (12.9%) died before labour; 193 (34.6%) died during labour and 293 (52.5%) died on the labour suite. Figure 1 presents the proportion of each outcome for each week of gestation for 1996–2000 and 2001–2005 and shows that outcomes, in particular in terms of survival, are relatively stable for the 22- and 23-week babies. An increase in survival occurred for 24- and 25-week babies in the more recent time period.

Table 1 identifies the number of babies at each week of gestation admitted to neonatal care as a rate of the total live births, over the four periods of the study.

Of the 1634 babies admitted to neonatal care, 659 (40.3%) babies survived to discharge (table 2). There was a significant increase in the proportion of babies surviving over the four time periods from 27.5% in 1991 to 1995 to 50.2% in 2006 to 2010 (p<0.001). None of the 22-week babies over the 20-year time period survived. In contrast, 15.0% of 23-week babies, 34.6% of 24-week babies and 55.4% of 25-week babies survived (table 2). There was a trend over the 20 years for increased survival and at 24 and 25 weeks of gestation, this change was highly statistically significant (p<0.01). Although the survival of 23-week babies has improved, this failed to achieve statistical significance (p=0.08).

The number of days of ventilation and of CPAP used in caring for these babies is given in table 3 and as a proportion of total ventilation or CPAP use for all admissions to neonatal care at all gestational ages. Data for babies of 22 weeks of gestation are based on too few patients for any trend to be clear but for babies of 23, 24 and 25 weeks gestational age, the trend is one of increasing resource use (all p values <0.001). This is especially true when one considers the combined totals for ventilation and CPAP to take into account the changing approach to respiratory support (greater use of CPAP) over this time. Over the whole 20 years, the babies born at 22–25 weeks gestational age accounted for 26.3% of the total days of ventilation and 21.5% of total CPAP days given to all babies admitted to neonatal care (table 3).

Of days of ventilation and CPAP given to babies born at 22–25 weeks gestational age, 34.8% of the ventilation days and 9.6% of the CPAP days were given to babies who ultimately died (table 4). For 2006–2010, the proportions of care given to
babies who ultimately died were higher than in the preceding years (8.2% of ventilation and 10.0% of CPAP).

Table 5 shows the length of stay for each gestation group over time for those babies who died before discharge. This table has been created excluding the 62 babies that died outside the geographical boundaries used by TNS as it was not possible to determine how long they remained in neonatal care. Excluding the data for babies at 22 weeks of gestation, as the number of these babies is very small, the pattern has been towards deaths at a later age (all p values <0.001). Table 6 shows equivalent data for surviving babies where no clear trend emerged (all p values >0.05).

**DISCUSSION**

The data from this study highlight the issues that surround this group of babies. For births at 24 and 25 weeks of gestation, there appears to have been an increasing readiness to provide intensive care over the 20 years of our study. This has been matched by improved survival but at the cost of very significant resource use as measured in terms of days of respiratory support. We have measured neurodevelopmental outcome in this cohort on two occasions and the data indicate that rates of adverse outcome in the whole cohort are relatively high at around 30% of survivors.16

At 22 weeks, the converse is true. In our study, there were no survivors over a 20-year period and hence the current policy in UK2 (and indeed in many other countries)5 17 of providing comfort care for these babies seems to be correct. Whether a more aggressive policy towards these babies would provide a different and perhaps more encouraging outcome seems unlikely without first seeing an improving picture for babies born at 23 weeks of gestation. However, in some parts of the world there appears to be both a greater willingness to provide full intensive care to babies at 22 weeks of gestation and somewhat better results.18

It is at 23 weeks of gestation that there appears to be a watershed. The pattern of survival over 20 years is one of increase although the scale of change is quite different to that seen for babies at 24 and 25 weeks of gestation. While the test for trend does not quite reach significance the study was not planned to be powered to measure a particular change in mortality and a bigger study may well have crossed the threshold for statistical significance. However, the issue of clinical significance is somewhat different as it is highly probable that any change in survival may have been at the cost of high rates of disability. There is no suggestion that the different pattern of outcome for babies at 23 weeks of gestation has been because of a lack of enthusiasm to support such babies as the amount of respiratory support has risen markedly in the last 15 years of the study with a large proportion of the ventilator support that went to babies at this gestation given to those who ultimately died. In general, over time, these deaths occurred later than in earlier years. Our data suggest therefore that despite all that intensive care has to offer currently, there has been no clear benefit at 23 weeks of gestation.

So what implications do these data have for the various issues surrounding this group of babies and are the current policies towards these babies appropriate? As the data indicate that any improved survival may be at the cost of high rates of disability, there is no suggestion that the different pattern of outcome for babies at 23 weeks of gestation has been because of a lack of enthusiasm to support such babies as the amount of respiratory support has risen markedly in the last 15 years of the study with a large proportion of the ventilator support that went to babies at this gestation given to those who ultimately died. In general, over time, these deaths occurred later than in earlier years. Our data suggest therefore that despite all that intensive care has to offer currently, there has been no clear benefit at 23 weeks of gestation.

**Table 1**

<table>
<thead>
<tr>
<th>Birth year</th>
<th>22 n (rate per 10 000 births)</th>
<th>23 n (rate per 10 000 births)</th>
<th>24 n (rate per 10 000 births)</th>
<th>25 n (rate per 10 000 births)</th>
<th>Total n (rate per 10 000 births)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991–1995</td>
<td>14 (0.5)</td>
<td>56 (1.8)</td>
<td>141 (4.6)</td>
<td>179 (5.9)</td>
<td>390 (12.9)</td>
</tr>
<tr>
<td>1996–2000</td>
<td>11 (0.4)</td>
<td>77 (2.8)</td>
<td>139 (5.1)</td>
<td>183 (6.7)</td>
<td>410 (14.9)</td>
</tr>
<tr>
<td>2001–2005</td>
<td>5 (0.2)</td>
<td>47 (1.8)</td>
<td>164 (6.2)</td>
<td>182 (6.9)</td>
<td>398 (15.0)</td>
</tr>
<tr>
<td>2006–2010</td>
<td>1 (0.03)</td>
<td>80 (2.7)</td>
<td>151 (5.0)</td>
<td>204 (6.8)</td>
<td>436 (14.5)</td>
</tr>
<tr>
<td>Total</td>
<td>31 (0.3)</td>
<td>260 (2.3)</td>
<td>595 (5.2)</td>
<td>748 (6.5)</td>
<td>1,634 (14.3)</td>
</tr>
</tbody>
</table>
management guidelines appropriate both in the UK and in other countries with similar approaches to these babies? In relation to babies born at 24 and 25 weeks of gestation, survival to discharge for babies was approximately 44% and 67%, respectively in the most recent 5 years, and given that late deaths are not common, it would seem unacceptable to consider anything other than an expectation of active treatment for such babies. Perhaps more important is that the trend in the data over time is for improvement. This suggests that current technologies are improving the outlook for these babies and hence it would seem perverse not to consider an active approach in such babies as the norm.

For babies born at 22 weeks of gestation, the opposite appears to be true as no survivors were recorded. The only trend in the data appears to be a steady reduction in the number of babies even considered for intensive care. The number of CPAP and ventilation days received by the 22 weeks gestational age babies reflected the care pathway of a very small number of babies who all ultimately died. A palliative approach to the baby and his or her family therefore seems appropriate in terms of what current technology appears to be able to offer but this position should be subject to review if the outcome for 23-week gestation babies was to change significantly in the future.

The situation regarding babies of 23 weeks gestation presents the most complex challenge. In relation to the link with the abortion limit, the study includes data to support the view that 23 weeks represents the limit of our current technology and that this situation has not shown significant change over 20 years.

The current clinical guidelines regarding the management of babies born at 23 weeks of gestation suggest that the decision to offer active treatment should be made jointly between the clinical team and the parents with the expectation that for many babies active intervention would not be appropriate. Clearly a range of factors impact on what actually happens such as the time available for counselling and discussion, the experience of the clinicians present, the understanding and background of the parents and the condition of the baby when born. Given that some key elements of the process cannot easily be controlled, in many cases attempting resuscitation is the ‘default’ position. It is this issue which has been the subject of media debate and whether, as in The Netherlands, at 23 weeks of gestation, resuscitation should not be attempted.

However, this view assumes that 23-week gestation babies are a unique group within neonatal care whose difficulties and poor outlook are not shared by other groups and this is clearly not true. Similar issues can be raised in relation to babies born with a range of congenital abnormalities. Fortunately, the numbers of each individual anomaly carrying a similarly poor prognosis are small and hence they have less impact but considered as a group, their outlook is also equivalent to that of the most immature babies. This inevitably leads to the question of whether it is reasonable to abandon active care for all babies who share a poor overall prognosis? Such a position would seem untenable.

Table 2  Number of babies surviving to discharge at each gestational age in each birth year category (% surviving of those admitted)

<table>
<thead>
<tr>
<th>Birth year</th>
<th>22 n (%)</th>
<th>23 n (%)</th>
<th>24 n (%)</th>
<th>25 n (%)</th>
<th>Total n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991–1995</td>
<td>0 (0%)</td>
<td>4 (7.1%)</td>
<td>31 (22.0%)</td>
<td>72 (40.2%)</td>
<td>107 (27.5%)</td>
</tr>
<tr>
<td>1996–2000</td>
<td>0 (0%)</td>
<td>11 (14.3%)</td>
<td>44 (31.7%)</td>
<td>93 (50.8%)</td>
<td>148 (36.1%)</td>
</tr>
<tr>
<td>2001–2005</td>
<td>0 (0%)</td>
<td>8 (17.0%)</td>
<td>65 (39.7%)</td>
<td>112 (61.5%)</td>
<td>185 (46.5%)</td>
</tr>
<tr>
<td>2006–2010</td>
<td>0 (0%)</td>
<td>16 (20.0%)</td>
<td>66 (43.7%)</td>
<td>137 (67.2%)</td>
<td>219 (50.2%)</td>
</tr>
<tr>
<td>Total</td>
<td>0 (0%)</td>
<td>39 (15.0%)</td>
<td>206 (34.6%)</td>
<td>414 (55.4%)</td>
<td>659 (40.3%)</td>
</tr>
<tr>
<td>p Value: test for trend</td>
<td>-</td>
<td>0.08</td>
<td>0.004</td>
<td>0.002</td>
<td>&lt;0.001</td>
</tr>
</tbody>
</table>

Table 3  The total number of days of ventilation and CPAP by gestational age and year group, and as a percentage of the total number of days ventilation or CPAP for babies of all gestational ages admitted to neonatal care

<table>
<thead>
<tr>
<th>Birth year</th>
<th>Ventilation</th>
<th>CPAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991–1995</td>
<td>32 (0.1%)</td>
<td>32 (0.1%)</td>
</tr>
<tr>
<td>1996–2000</td>
<td>37 (0.1%)</td>
<td>37 (0.1%)</td>
</tr>
<tr>
<td>2001–2005</td>
<td>3 (&lt;0.1%)</td>
<td>3 (&lt;0.1%)</td>
</tr>
<tr>
<td>2006–2010</td>
<td>76 (0.3%)</td>
<td>76 (0.3%)</td>
</tr>
<tr>
<td>Total</td>
<td>148 (0.1%)</td>
<td>148 (0.1%)</td>
</tr>
<tr>
<td>p Value: test for trend</td>
<td>&lt;0.001</td>
<td>&lt;0.001</td>
</tr>
</tbody>
</table>

CPAP, continuous positive airway pressure.
since if active care is never attempted, then future progress would be extremely unlikely.

The data from this study in relation to babies born at 23 weeks of gestation also raise the issue of whether the current model for delivery of care to these babies is correct. At present, they are dispersed between 50 or more intensive care units in the UK and it seems important to consider whether instead there would be advantages to focusing the care of 23-week gestation babies to a smaller group of intensive care units. For the UK and it seems important to consider whether instead there would be advantages to focusing the care of 23-week gestation babies to a smaller group of intensive care units. For the UK and it seems important to consider whether instead there would be advantages to focusing the care of 23-week gestation babies to a smaller group of intensive care units. For the UK and it seems important to consider whether instead there would be advantages to focusing the care of 23-week gestation babies to a smaller group of intensive care units.

Table 4

<table>
<thead>
<tr>
<th>Birth Year</th>
<th>22 n (%)</th>
<th>23 n (%)</th>
<th>24 n (%)</th>
<th>25 n (%)</th>
<th>Total n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1991-1995</td>
<td>32 (100%)</td>
<td>417 (83.4%)</td>
<td>695 (35.4%)</td>
<td>814 (30.4%)</td>
<td>1958 (37.5%)</td>
</tr>
<tr>
<td>1996-2000</td>
<td>37 (100%)</td>
<td>306 (41.2%)</td>
<td>572 (30.8%)</td>
<td>615 (22.8%)</td>
<td>1530 (28.7%)</td>
</tr>
<tr>
<td>2001-2005</td>
<td>3 (100%)</td>
<td>445 (54.9%)</td>
<td>1055 (33.0%)</td>
<td>1061 (28.7%)</td>
<td>2564 (33.3%)</td>
</tr>
<tr>
<td>2006-2010</td>
<td>76 (100%)</td>
<td>1135 (61.6%)</td>
<td>1251 (40.2%)</td>
<td>1042 (24.8%)</td>
<td>3504 (38.2%)</td>
</tr>
<tr>
<td>Total</td>
<td>148 (100%)</td>
<td>2303 (58.3%)</td>
<td>3573 (35.5%)</td>
<td>3532 (26.6%)</td>
<td>9556 (34.8%)</td>
</tr>
</tbody>
</table>

p Value: test for trend CPAP

- 0.56 <0.001 0.02 <0.001 0.004
- 0% 25% 128 67 196
- 0% 0.6% 10.2% 4.0% 6.3%
- 0% 91% 6.1% 10.4% 8.8%
- 3% 231 322 349 905
- 100% 27.3% 12.5% 6.2% 10.0%
- 3 275 719 926 1923
- 100% 17.7% 11.0% 7.7% 9.6%

p Value: test for trend

- <0.001 <0.001 <0.001 0.009

Table 5

<table>
<thead>
<tr>
<th>Birth Year</th>
<th>22 Median (range)</th>
<th>23 Median (range)</th>
<th>24 Median (range)</th>
<th>25 Median (range)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991–1995</td>
<td>1.0 (1, 17)</td>
<td>2.0 (1, 144)</td>
<td>2.0 (1, 197)</td>
<td>3.0 (1, 132)</td>
</tr>
<tr>
<td>1996–2000</td>
<td>3.0 (1, 11)</td>
<td>3.0 (1, 21)</td>
<td>2.5 (1, 186)</td>
<td>3.0 (1, 157)</td>
</tr>
<tr>
<td>2001–2005</td>
<td>1.0 (1, 2)</td>
<td>3.0 (1, 84)</td>
<td>5.5 (1, 110)</td>
<td>7.5 (1, 165)</td>
</tr>
<tr>
<td>2006–2010</td>
<td>79.0*</td>
<td>8.0 (1, 194)</td>
<td>7.0 (1, 162)</td>
<td>9 (1, 153)</td>
</tr>
<tr>
<td>p Value</td>
<td>0.33 &lt;0.001 &lt;0.001 &lt;0.001</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*This length of stay is calculated from one baby and should not be over interpreted.
no better than non-transfers are probably not a reliable guide to the likely impact of greater centralisation as the data, like ours, relate to a period where decisions to transfer were often made for a variety of reasons, such as a lack of space, and not simply to move the baby to a higher level of care/ expertise. 21

LIMITATIONS
While our work is based on a geographically defined population, data are limited to short-term outcomes. Although data are available from elsewhere on trends in longer term health status, these need careful interpretation, particularly in terms of the definitions used, the population included and the chosen denominator.

Missing, in terms of describing outcome in these children, both in our study and many others are the views of the parents. Describing success or failure in terms of alive or dead, disabled or not is clearly too simplistic and a greater understanding of how parents view the outcome of these children would clearly be helpful. Such views when produced in the lay press are typically polarised and hence may be both unrepresentative and misleading.

CONCLUSION
Our work generally agrees with the existing UK and other international guidelines and recommendations. However, if we are to improve our management of these babies, it would appear sensible to reconsider how and where their care is organised and delivered. Improving the package of care, as perceived by the family, will not necessarily improve survival or reduce morbidity.

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Contributors The initial concept was devised by DF, SS and SK undertook the statistical analysis and wrote the first draft of the paper. BM, ED and DF all made substantial contributions to conception and design. All authors contributed to interpretation of the data and the writing of the paper. SS is the guarantor.

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Competing interests None.

Ethics approval The Neonatal Survey is given permission to collect data by the Patient Information Advisory Group (Now the National Information Governance Board for Health and Social Care).

Provenance and peer review Not commissioned; externally peer reviewed.

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REFERENCES

Table 6 The median (range) length of stay for babies (in days) who survived to discharge from neonatal care

<table>
<thead>
<tr>
<th>Birth year</th>
<th>22 Median (range)</th>
<th>23 Median (range)</th>
<th>24 Median (range)</th>
<th>25 Median (range)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991–1995</td>
<td>121.5 (90, 159)</td>
<td>114.0 (75, 319)</td>
<td>102.0 (61, 163)</td>
<td></td>
</tr>
<tr>
<td>1996–2000</td>
<td>124.0 (82, 162)</td>
<td>125.5 (87,176)</td>
<td>104.0 (21, 201)</td>
<td></td>
</tr>
<tr>
<td>2001–2005</td>
<td>138.5 (120, 222)</td>
<td>124.0 (78, 231)</td>
<td>114.0 (64, 237)</td>
<td></td>
</tr>
<tr>
<td>2006–2010</td>
<td>134.5 (104, 231)</td>
<td>110.0 (79, 214)</td>
<td>109.0 (49, 233)</td>
<td></td>
</tr>
<tr>
<td>p Value</td>
<td>0.11</td>
<td>0.14</td>
<td>0.07</td>
<td></td>
</tr>
</tbody>
</table>

Gestation (weeks)