Screening will save newborn lives: A case for the introduction of routine screening for group B Streptococcus in late pregnancy
Foreword

Life-threatening group B Strep infections in newborn babies can usually be prevented. A simple and inexpensive test in the later stages of pregnancy can detect the bacteria, allowing treatment to be given to the mother during labour so preventing infection in the newborn baby. I’d like to see every pregnant woman in the UK offered a sensitive test for GBS on the NHS – this test is a routine part of antenatal care in many countries including France, Canada, Spain and the USA.

This report makes the simple case that the current system of only treating women identified through ‘risk factors’ is ineffective. While the number of GBS infections in newborn babies has risen in the UK, it has fallen dramatically in countries where routine screening has been introduced.

Dr Chris Steele MBE

During 2012, the UK National Screening Committee looked at the evidence published since 2008 regarding the introduction of routine testing for group B Strep for all pregnant women, deciding against its introduction at the end of the year. This decision was devastating for GBSS and all the parents, health professionals and others who have dedicated many hours to making the case that routine antenatal testing for group B Strep can save lives and reduce the risk of long term disability by preventing these devastating infections. In the UK, the incidence of GBS infections in newborn babies remains higher than before the risk-based prevention strategy was introduced in 2003, although it has fallen significantly in other countries which offer routine antenatal testing. Despite this, the UK National Screening Committee remained unconvinced this time, but we have not given up and will continue to increase awareness and press for change.

At a meeting with the Parliamentary Under Secretary of State, Department of Health, Dr Dan Poulter MP, and the Chief Medical Officer, Prof Dame Sally Davies in December 2012, it was agreed that steps would be taken to ensure health professionals will be able to access the ‘gold standard’ ECM (Enriched Culture Medium) tests for group B Strep carriage in NHS laboratories. This means the best tests will be available, improving prevention of these severe infections. We are delighted by this and look forward to it becoming a reality during 2013.

Jane Plumb MBE
Every year, large numbers of babies are affected by life threatening group B Streptococcal infection. Whilst most recover, some are stillborn, more die in the first weeks of life and others suffer lifelong disability.

Group B Strep, known as GBS or Strep B, is Britain’s most frequent cause of severe early-onset (0–6 days of life) infection in babies. Most GBS infection in babies is early onset and these infections are highly preventable.

Prevention methods are not currently available for late-onset (after age 6 days) GBS infection and this report therefore focuses on those of early-onset only.

A simple maternal GBS screening programme could identify women carrying the potentially lethal bacteria and those women, and others known to be at higher risk, could be offered antibiotics in labour to minimise the risk of GBS infection in their newborn babies. Many countries have already recognised the scale of the problem, and have introduced screening programmes, including Australia, Argentina, Belgium, Canada, Chile, Czech Republic, France, Germany, Hong Kong, Italy, Japan, Kenya, Lithuania, Oman, Poland, Spain, Slovenia, Switzerland and the USA.

As a result of these screening programmes, the number of GBS infections in newborn babies has fallen significantly – in the USA by over 80%, in Spain by 86%, in Australia by 82% and in France by 71%. In the UK, routine screening for GBS is not offered and the incidence has increased (see graphs).

Since 2003, the number of voluntarily reported culture-proven GBS infections in newborn babies has risen by 23% to 281 cases in England, Wales and Northern Ireland in 2011. Even with the best medical care, about one in ten babies with GBS infection die and, although most survivors recover fully, up to half of those who recover from GBS meningitis suffer long-term problems. If current trends continue, the number of GBS infections and resultant deaths and disabilities among newborn babies will double within the next three decades.

Many obstetricians, paediatricians and midwives are concerned that Britain is out of sync with much of the rest of the developed world. Approximately one in four people in Britain are likely carriers of the GBS bacteria, which produces no symptoms – the first many parents hear of group B Strep is when their baby is fighting for its life in the Special Care Baby Unit.

Within the last six years, four reports have been commissioned through the Government’s Health Technology Assessment Programme, the Medical Research Council and other healthcare research agencies, to establish how to combat preventable GBS infection in newborn babies. All have found screening to be more cost effective than risk-based prevention and recommended that steps to introduce screening should be explored.

While in opposition the Prime Minister David Cameron tabled three parliamentary motions calling for better prevention of these devastating infections in newborn babies.

During 2012, the UK National Screening Committee looked at the evidence since 2008 for and against the introduction of routine testing for GBS for all pregnant women, deciding against its introduction at the end of the year.

At a meeting with the Parliamentary Under Secretary of State, Department of Health, Dr Dan Poulter MP and the Chief Medical Officer, Prof Dame Sally Davies, it was agreed that steps would be taken to ensure health professionals will be able to access the ‘gold standard’ ECM (Enriched Culture Medium) tests for group B Strep carriage in NHS laboratories. This means the best tests will be available, improving prevention of devastating GBS infections in newborn babies.

The number of GBS infections in the UK remains higher than before the current risk-based prevention strategy was introduced, while falling in countries which offer routine antenatal screening for GBS. The UK National Screening Committee may have remained unconvinced this time, but we believe that the weight of evidence showing the positive impact of routine antenatal testing for GBS will eventually be accepted by the Committee.

This report looks at the implications of the increase in GBS infection in newborn babies, the case for the introduction of a national screening programme, the existing recommendations for a ‘risk factor’ approach to GBS prevention, and the hopes for a vaccine that will one day prevent the misery of child death being visited on too many parents every year.

Professor Philip Steer
Chair of GBSB Medical Panel

GBS is the most common cause of life-threatening infection in newborn babies, causing death and disability:

- GBS infections in newborn babies continue to rise in the United Kingdom
- GBS infections in newborn babies have fallen substantially in countries which routinely screen

Group B Strep Support continues to make the case for improved prevention and would like to see:

- Sensitive GBS testing offered by the NHS to all pregnant women
- All pregnant women given information about GBS as part of routine antenatal care
- Intravenous antibiotics offered during labour to all women with identified risk factors (including GBS carriage detected by testing)
- All appropriate health professionals to be fully informed about group B Strep - the availability of ECM testing for GBS carriage, how and when these tests should be administered and what prevention strategies are available

**National decline of GBS infection in the USA**

<table>
<thead>
<tr>
<th>Year</th>
<th>GBS Infections</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>100</td>
</tr>
<tr>
<td>1992</td>
<td>200</td>
</tr>
<tr>
<td>1994</td>
<td>300</td>
</tr>
<tr>
<td>1996</td>
<td>400</td>
</tr>
<tr>
<td>1998</td>
<td>500</td>
</tr>
<tr>
<td>2000</td>
<td>100</td>
</tr>
<tr>
<td>2002</td>
<td>200</td>
</tr>
<tr>
<td>2004</td>
<td>300</td>
</tr>
<tr>
<td>2006</td>
<td>400</td>
</tr>
<tr>
<td>2008</td>
<td>500</td>
</tr>
<tr>
<td>2010</td>
<td>100</td>
</tr>
<tr>
<td>2011</td>
<td>200</td>
</tr>
</tbody>
</table>

**Incidence of early- and late-onset invasive group B streptococcal (GBS) disease in the USA**

<table>
<thead>
<tr>
<th>Year</th>
<th>Incidence per 1,000 live births</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>1.0</td>
</tr>
<tr>
<td>1992</td>
<td>2.0</td>
</tr>
<tr>
<td>1994</td>
<td>3.0</td>
</tr>
<tr>
<td>1996</td>
<td>4.0</td>
</tr>
<tr>
<td>1998</td>
<td>5.0</td>
</tr>
<tr>
<td>2000</td>
<td>1.0</td>
</tr>
<tr>
<td>2002</td>
<td>2.0</td>
</tr>
<tr>
<td>2004</td>
<td>3.0</td>
</tr>
<tr>
<td>2006</td>
<td>4.0</td>
</tr>
<tr>
<td>2008</td>
<td>5.0</td>
</tr>
<tr>
<td>2010</td>
<td>1.0</td>
</tr>
<tr>
<td>2011</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**GBS bacteremia in infants**

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>200</td>
</tr>
<tr>
<td>2001</td>
<td>250</td>
</tr>
<tr>
<td>2002</td>
<td>300</td>
</tr>
<tr>
<td>2003</td>
<td>350</td>
</tr>
<tr>
<td>2004</td>
<td>400</td>
</tr>
<tr>
<td>2005</td>
<td>450</td>
</tr>
<tr>
<td>2006</td>
<td>500</td>
</tr>
<tr>
<td>2007</td>
<td>550</td>
</tr>
<tr>
<td>2008</td>
<td>600</td>
</tr>
<tr>
<td>2009</td>
<td>650</td>
</tr>
<tr>
<td>2010</td>
<td>700</td>
</tr>
<tr>
<td>2011</td>
<td>750</td>
</tr>
</tbody>
</table>

**Incidence of early- and late-onset invasive group B streptococcal (GBS) disease**

<table>
<thead>
<tr>
<th>Year</th>
<th>Incidence per 1,000 live births</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>1.0</td>
</tr>
<tr>
<td>1992</td>
<td>2.0</td>
</tr>
<tr>
<td>1994</td>
<td>3.0</td>
</tr>
<tr>
<td>1996</td>
<td>4.0</td>
</tr>
<tr>
<td>1998</td>
<td>5.0</td>
</tr>
<tr>
<td>2000</td>
<td>1.0</td>
</tr>
<tr>
<td>2002</td>
<td>2.0</td>
</tr>
<tr>
<td>2004</td>
<td>3.0</td>
</tr>
<tr>
<td>2006</td>
<td>4.0</td>
</tr>
<tr>
<td>2008</td>
<td>5.0</td>
</tr>
<tr>
<td>2010</td>
<td>1.0</td>
</tr>
<tr>
<td>2011</td>
<td>2.0</td>
</tr>
</tbody>
</table>
She raised concerns with several health professionals, quite right,” says his mum, Natasha. “From twelve hours old, I could tell something was not right with him, with the help of physio and speech therapy.”

Mikey Walsh was born on 3 April 2008 in Wakefield. “Our consultant told us that Mikey had cerebral palsy before a diagnosis is made, or because a baby is stillborn due to GBS infection and the cause of the infection is never investigated.

In the UK, anything up to 88,000 babies a year are colonised with GBS at birth. In 2003, it was estimated that 340 babies, a year in the UK developed GBS infection aged 0–6 days, with varying degrees of severity and 39 died from their infection, although subsequent research shows that the true current incidence could be three times greater. A study in a major London hospital found an incidence of proven GBS infection of 1.1 per 1,000 live births, but this increased to 3.6 per 1,000 live births when it included probable cases - one case in every 277 babies born. UK wide, this would mean around 2,500 newborn babies requiring treatment, even though many may never be formally identified as infected with GBS.

In the UK as a whole, about one in seven of all newborn babies requires some extra hospital care, which can cost £1,200 or more a day depending on how much intensive nursing they need. Removing the GBS cases would not only save money but also free up many intensive care cots for other sick babies.

What is group B Streptococcus?

Group B Streptococcus is a bacterium carried harmlessly in the vagina of approximately 21% of pregnant women in the UK.4

It usually only becomes a problem if a baby is exposed to it around the time of labour as the immune systems of newborn infants are less able to fight off its potentially damaging effects. If GBS gets into the bloodstream or lungs of a newborn baby, it can cause septicaemia and pneumonia, each of which can be fatal and is expensive to treat. Most GBS infections in babies develop within the first hours and days of life, but, less commonly, it can develop up to age three months. Then it is more likely to cause meningitis, which can be fatal or cause a range of lifelong disabilities including blindness, deafness, speech problems or learning impairments.

It is not clear how many babies’ deaths and disabilities from group B Strept infections are excluded from official statistics because babies are rapidly treated on symptoms alone before a diagnosis is made, or because a baby is stillborn due to GBS infection and the cause of the infection is never investigated.

What is currently done to prevent GBS infections in the UK?

UK guidelines on how to prevent GBS infection in newborn babies were first widely circulated by the Royal College of Obstetricians and Gynaecologists (RCOG) in 2003. These call upon health professionals to be alert to risk factors and either give or consider giving antibiotics to the pregnant woman in labour where recognised risk factors exist.

Risk factors for GBS infection

Each of the risk factors shown below increases the risk of GBS infection in a newborn baby:

• Mother has previously had a GBS infected baby
• Mother has been identified during the current pregnancy as a GBS carrier, or GBS has been found in her urine
• Labour starts or membranes rupture (waters break) before 37 weeks of pregnancy (i.e. preterm)
• Where the waters break more than 18 hours before delivery
• Where the mother has a temperature of 37.8°C or higher.

Caring GBS during pregnancy is recognised as an important risk factor for GBS infection in a newborn baby, yet women are rarely told about group B Strept by their health professionals and even more rarely offered testing for it. At the ‘gold standard’ Enriched Culture Medium (ECM) tests become available in the NHS during 2013, this situation will only change if pregnant women and their health professionals are made aware of its availability.

The RCOG guidelines seem to have made little impact in the ten years since they appeared, despite RCOG’s 2007 audit reporting that “The practice reported by midwives and obstetricians is in broad agreement with the risk-based IAP strategy described in the RCOG Green-top guideline.”14 The level of knowledge about GBS among health professionals caring for expectant parents is poor.15 It may be that part of the problem with this risk-based strategy is that it is too complex – to be effective, any strategy needs to be both easy to understand and easy to implement.

There is evidence that the guideline’s implementation has not been ideal: a study published three years ago investigated 48 cases of GBS infection in newborn babies between 2004 and 2007 from eight UK neonatal units. 67% of the mothers had one or more known GBS risk factors, and the authors reported that between 50% and 80% of the infections in the babies could have been prevented.
and local news, took members of Group B Strep Support to “He spoke about his support for our campaign on national infected with this devastating bacteria.

Cameron. Over the following years, he offered his support for preventing other newborn babies from being other parents suffering the same trauma in the future.”

In 2003, the couple contacted their local MP, David Cameron. After the following years, he offered his support for preventing other newborn babies from being other parents suffering the same trauma in the future.”

The first month following Owen’s death were just a fog of emotions. “Our life had been very happy, particularly over the previous nine months as we planned the start of our family, but on this September day everything was shattered. However, with time we both knew that the best way forward was to try and make sure that something positive came out of Owen’s short life. We could never bring him back, but we could do something to stop other parents suffering the same trauma in the future.”

In 2003, the couple contacted their local MP, David Cameron. Over the following years, he offered his support for preventing other newborn babies from being other parents suffering the same trauma in the future.”

“He spoke about his support for our campaign on national and local news, took members of Group B Strep Support to deliver a petition to Downing Street, held an Adjournment Debate in Parliament and tabled three well supported Early Day Motions. The most recent, dated July 2005, expressed concern that reliable testing for GBS carriage in pregnancy was unavailable on the NHS and urged the Department of Health to ensure it was made available urgently.

“I believe all hospitals should do surveys of their own to establish levels of local GBS risk, and then decide for themselves if screening is a waste of money.”

The case for screening

Many more cases of GBS infection in newborn babies can be prevented by routine screening (which identifies women actually carrying GBS) rather than using the current strategy of risk factors (many women have risk factors but don’t actually carry GBS), although the proportion of women offered antibiotics in labour would be similar.

In addition, at least a third of newborn babies with GBS infection are born to mothers with no recognised risk factors.

Risk-based programmes, because of their complexity, have a lower adherence than screening programmes. The evidence from countries which do screen shows dramatic falls in the incidence of GBS infection in newborn babies unlike in the UK.

Testing pregnant women for GBS carriage involves swabs being taken from the low vagina and rectum at 35–37 weeks of pregnancy and growing the bacteria using enriched culture techniques, which can take up to three days. The swabs can be taken by the pregnant woman herself, or by her health professionals, and there are no risks associated with the test. In countries which screen for GBS, mothers who go into labour before the test result is available are routinely offered antibiotics in labour based on risk factors, such as prematurity or fever in labour.

A 2007 Health Technology Assessment study commissioned by the Government estimated that £67m could be saved were GBS detection optimised. That figure is likely to be a huge under-estimate because of rising healthcare costs.

In 2010, health economists at the University of Birmingham published a study estimating that introducing universal GBS screening for pregnant mothers at 35–37 weeks of pregnancy would save £633,000 for every baby death avoided and £45,000 per disease avoided. There are insufficient data to assess the lifetime costs for babies left with disabilities, but these will be significant. Four recent UK reports have concluded that screening would be more cost effective than risk-based prevention.

Screening would be welcomed by expectant mothers

A survey in 2011 of 1,000 women aged 20–35 found that 92% would welcome the opportunity for pregnant women to be screened for group B Strep in the later stages of pregnancy and believe this should be offered to women routinely.

After a normal pregnancy and labour, Alison and Craig’s first child, Owen, was born in September 2002. After only a few moments it was clear that he was very sick. His heart wasn’t beating. The medical team tried for half an hour to resuscitate him, but with no success. Owen was stillborn. The post-mortem showed that Owen had an overwhelming GBS infection.

“A few weeks later we discovered that our little boy could have still been with us if I had been given intravenous antibiotics during labour,” says Alison.

The first month following Owen’s death were just a fog of emotions. “Our life had been very happy, particularly over the previous nine months as we planned the start of our family, but on this September day everything was shattered. However, with time we both knew that the best way forward was to try and make sure that something positive came out of Owen’s short life. We could never bring him back, but we could do something to stop other parents suffering the same trauma in the future.”

In 2003, the couple contacted their local MP, David Cameron. Over the following years, he offered his support for preventing other newborn babies from being other parents suffering the same trauma in the future.”

“He spoke about his support for our campaign on national and local news, took members of Group B Strep Support to deliver a petition to Downing Street, held an Adjournment Debate in Parliament and tabled three well supported Early Day Motions. The most recent, dated July 2005, expressed concern that reliable testing for GBS carriage in pregnancy was unavailable on the NHS and urged the Department of Health to ensure it was made available urgently.

“I believe all hospitals should do surveys of their own to establish levels of local GBS risk, and then decide for themselves if screening is a waste of money.”

The case for screening

Many more cases of GBS infection in newborn babies can be prevented by routine screening (which identifies women actually carrying GBS) rather than using the current strategy of risk factors (many women have risk factors but don’t actually carry GBS), although the proportion of women offered antibiotics in labour would be similar.

In addition, at least a third of newborn babies with GBS infection are born to mothers with no recognised risk factors.

Risk-based programmes, because of their complexity, have a lower adherence than screening programmes. The evidence from countries which do screen shows dramatic falls in the incidence of GBS infection in newborn babies unlike in the UK.

Testing pregnant women for GBS carriage involves swabs being taken from the low vagina and rectum at 35–37 weeks of pregnancy and growing the bacteria using enriched culture techniques, which can take up to three days. The swabs can be taken by the pregnant woman herself, or by her health professionals, and there are no risks associated with the test. In countries which screen for GBS, mothers who go into labour before the test result is available are routinely offered antibiotics in labour based on risk factors, such as prematurity or fever in labour.

A 2007 Health Technology Assessment study commissioned by the Government estimated that £67m could be saved were GBS detection optimised. That figure is likely to be a huge under-estimate because of rising healthcare costs.

In 2010, health economists at the University of Birmingham published a study estimating that introducing universal GBS screening for pregnant mothers at 35–37 weeks of pregnancy would save £633,000 for every baby death avoided and £45,000 per disease avoided. There are insufficient data to assess the lifetime costs for babies left with disabilities, but these will be significant. Four recent UK reports have concluded that screening would be more cost effective than risk-based prevention.

Screening would be welcomed by expectant mothers

A survey in 2011 of 1,000 women aged 20–35 found that 92% would welcome the opportunity for pregnant women to be screened for group B Strep in the later stages of pregnancy and believe this should be offered to women routinely.

After a normal pregnancy and labour, Alison and Craig’s first child, Owen, was born in September 2002. After only a few moments it was clear that he was very sick. His heart wasn’t beating. The medical team tried for half an hour to resuscitate him, but with no success. Owen was stillborn. The post-mortem showed that Owen had an overwhelming GBS infection.

“A few weeks later we discovered that our little boy could have still been with us if I had been given intravenous antibiotics during labour,” says Alison.

The first month following Owen’s death were just a fog of emotions. “Our life had been very happy, particularly over the previous nine months as we planned the start of our family, but on this September day everything was shattered. However, with time we both knew that the best way forward was to try and make sure that something positive came out of Owen’s short life. We could never bring him back, but we could do something to stop other parents suffering the same trauma in the future.”

In 2003, the couple contacted their local MP, David Cameron. Over the following years, he offered his support for preventing other newborn babies from being other parents suffering the same trauma in the future.”

“He spoke about his support for our campaign on national and local news, took members of Group B Strep Support to deliver a petition to Downing Street, held an Adjournment Debate in Parliament and tabled three well supported Early Day Motions. The most recent, dated July 2005, expressed concern that reliable testing for GBS carriage in pregnancy was unavailable on the NHS and urged the Department of Health to ensure it was made available urgently.

“I believe all hospitals should do surveys of their own to establish levels of local GBS risk, and then decide for themselves if screening is a waste of money.”

The case for screening

Many more cases of GBS infection in newborn babies can be prevented by routine screening (which identifies women actually carrying GBS) rather than using the current strategy of risk factors (many women have risk factors but don’t actually carry GBS), although the proportion of women offered antibiotics in labour would be similar.

In addition, at least a third of newborn babies with GBS infection are born to mothers with no recognised risk factors.

Risk-based programmes, because of their complexity, have a lower adherence than screening programmes. The evidence from countries which do screen shows dramatic falls in the incidence of GBS infection in newborn babies unlike in the UK.

Testing pregnant women for GBS carriage involves swabs being taken from the low vagina and rectum at 35–37 weeks of pregnancy and growing the bacteria using enriched culture techniques, which can take up to three days. The swabs can be taken by the pregnant woman herself, or by her health professionals, and there are no risks associated with the test. In countries which screen for GBS, mothers who go into labour before the test result is available are routinely offered antibiotics in labour based on risk factors, such as prematurity or fever in labour.

A 2007 Health Technology Assessment study commissioned by the Government estimated that £67m could be saved were GBS detection optimised. That figure is likely to be a huge under-estimate because of rising healthcare costs.

In 2010, health economists at the University of Birmingham published a study estimating that introducing universal GBS screening for pregnant mothers at 35–37 weeks of pregnancy would save £633,000 for every baby death avoided and £45,000 per disease avoided. There are insufficient data to assess the lifetime costs for babies left with disabilities, but these will be significant. Four recent UK reports have concluded that screening would be more cost effective than risk-based prevention.

Screening would be welcomed by expectant mothers

A survey in 2011 of 1,000 women aged 20–35 found that 92% would welcome the opportunity for pregnant women to be screened for group B Strep in the later stages of pregnancy and believe this should be offered to women routinely.

"I'm not used to being applauded by obstetricians, but when I presented our GBS results at a national conference, I was greeted by wild applause.”

Since the introduction of screening, there have been just two GBS cases in Guernsey. One was in a baby born to a woman who refused screening, and the other was a premature baby born with GBS before the mother had been screened.
In addition, 92% believe that information on group B Strep should be given to all pregnant women yet almost 50% of them had no idea what GBS is (and of those who had heard of it, only 20% knew what it was).

Furthermore, 95% believe antibiotics should be offered in labour to women with group B Strep and that they themselves would definitely, or probably, accept the offer (89%).

Sadly, all too often parents only find out when tragedy strikes.

Is more research needed?

More research is always welcome when it sheds light on something not understood. However, further research, if required before introducing screening, would mean more avoidable deaths occur while more and better evidence is collected for what is already known: screening strategies are better than risk factor strategies at preventing group B Strep infections in newborn babies.

There is a perception that health professionals just aren’t being given the tools they need to tackle these devastating infections and the failure to offer routine antenatal testing for GBS using safe and effective tests, estimated to cost just £10.63 each in 2009, underlines this. The reasons for this are unclear, particularly against a backdrop of other countries seeing 80% falls in their incidence of early onset GBS disease following the introduction of preventative measures14 whilst the incidence in the UK has risen.

The prospects for a vaccine

Although there are at least eight different subgroups (or serotypes) of GBS causing infection in the UK, a vaccine against three of them (Ia, Ila and V) could prevent about 85% of cases21. It could prevent GBS infections not only in newborn babies, but also the less common late-onset (occurring seven or more days after birth) infections, which are not prevented by antibiotics in labour, as well as maternal infections.

Such a vaccine has been developed by the pharmaceutical company Novartis, and has been trialled on 320 pregnant and non-pregnant women aged 18 to 40, in South Africa. The trial is deemed to have been successful and data from the trial is being analysed to determine the optimum dose to produce an antibody response. Further large-scale trials in pregnant women will then be required before the product can be licensed, which could take a further three to five years, assuming all is well.

Rolling out an NHS vaccine programme could take a decade or more, so it is important that screening is introduced as soon as possible to save more babies suffering these severe infections and dying in the meantime.

Conclusion

It is well recognised that GBS is causing avoidable severe infections in newborn babies, causing death and disability and that the incidence is rising in the UK. The existing Royal College of Obstetricians & Gynaecologists’ guidelines, whilst a huge step forward in 2003, have been shown to have had little effect on the incidence of these devastating infections.

Ample evidence is available of the life-saving benefits of screening, from countries that are offering it. Evidence also suggests that this would save the NHS money.

In the light of this, GBSIS is calling for:

- All appropriate health professionals to be fully informed about group B Strep: the availability of ECM testing for GBS carriage, how and when these tests should be administered and what prevention strategies are available
- Every pregnant woman to be given information about GBS as part of routine antenatal care
- Sensitive GBS testing to be offered freely on the NHS to every pregnant woman whose newborn baby is at low risk of developing GBS infection
- Intravenous antibiotics to be offered during labour to all women with identified risk factors including those with GBS carriage detected by testing

Introducing these measures would prevent severe group B Strep infections in newborn babies which, in turn, saves lives, prevents disability, saves parents the debilitating grief caused by loss or damage to their child, and saves the health service millions of pounds.

Report prepared by Jane Plumb MBE

Reference List


