Neonatal Service Quality Indicators

Standards relating to Structures and Processes supporting Quality and Patient Safety in Neonatal Services

June 2017
# Neonatal Service Quality Indicators

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## Membership of Quality Steering Group

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Summary

- These Neonatal Service Quality Indicators define the features of a high quality neonatal service.
- As Service Quality Indicators, they relate to the structure and delivery of services and as such are different from Clinical Quality Indicators which relate to the quality of care of individual patients.
- It is recommended that neonatal services, with the support of their provider organization:
  1) Review themselves against these professional standards and publish information about their current status and future plans in an Annual Report. To make this process easier, each Quality Indicator is accompanied by a number of specific Quality Measures.
  2) Use these Service Quality Indicators as a basis for Quality Improvement, publishing their plans for this in an annual Quality Strategy.
- Parents and commissioners should expect to have access to information about the performance of neonatal services against the standards described in this document.
Introduction

Background

Several national Neonatal Quality Standards have been published in the UK in recent years, which aim to describe the structures and processes inherent in a high quality neonatal service. These have included the BAPM Service Standards for Hospitals Providing Neonatal Care (1), the Department of Health Toolkit for High Quality Neonatal Care (2), the Neonatal Service Specification (from the Neonatal Critical Care Clinical Reference Group of NHS England) (3), the NICE Standards for Specialist Neonatal Care (4), Neonatal Care in Scotland: A Quality Framework (5), the All Wales Neonatal Standards (6) and the Bliss Baby Charter (7).

There is increasing interest in the use of continuous quality improvement (CQI) in healthcare. CQI is an approach to quality assurance which focuses on organisations and their systems, and is based on the idea that there is opportunity for improvement in every process. The above standards, whilst they cover many aspects of service structure and delivery, do not address the increasingly recognized importance of structures and processes specific to continuous quality improvement (8). It can be difficult to embed continuous quality improvement in everyday practice, and this may be partly because of the difficulty in defining what it work (9). The Institute for Healthcare Improvement has recently published one of the few attempts to describe in detail the characteristics of a high quality healthcare organisation (10).

The BAPM Minimum dataset (1997, reviewed 2004) was developed to help neonatal services report their “workload, activity and resources” in an Annual Report, with the potential for this dataset to be used for “national monitoring of the delivery of neonatal intensive care services”. It was defined at a time prior to the universal use of the Badger Electronic Patient Record (EPR) and the National Neonatal Dataset which have effectively made the BAPM dataset redundant. In addition, the concept of Quality and Patient Safety as part of the fabric of healthcare has developed considerably in the past few years. The original Annual Report template did not include any measures of service performance, which were controversial at the time but are increasingly of interest to all stakeholders in neonatal care.

What is the purpose of these Service Quality Indicators?

The Neonatal Service Quality Indicators (NSQI) are an attempt to define the features of a high quality neonatal service. There are important long term impacts of early life experience, and neonatal professionals feel passionately about optimising the quality of neonatal care so as to deliver the best outcomes for babies and their families. The most specialised aspects of this care are of low volume (affecting a small proportion of the population) but are demanding of resource (human, technological and economic), and it is thus appropriate that they are subject to scrutiny of quality. The neonatal specialty in the UK is in the unparalleled situation of using a single electronic patient record and having a mature benchmarking process. As data describing neonatal care are increasingly available to health professionals, commissioners and the lay public, the challenge is to use the signals in these data to inform work to improve care.

The intention is that these professionally agreed Quality Indicators will be used by individual neonatal services as standards to work towards with support from Trust or Health Board managers and networks and by commissioners in England as the basis for negotiating a contract for providing neonatal services. It is hoped that they will also be referred to by professional, regulating and government bodies reviewing neonatal services in the future, and looked at by parents to enable them to understand the service that is being provided for their baby. Thus, the Service Quality Indicators in this document strive to be (a) clear (b) specific (c) easily measurable without excessive burden of extra data collection and (d) transparent in their implications to all the above stakeholders. They relate to service structure and delivery, and are thus different from Clinical Quality Indicators (usually at individual patient level) which relate to the quality of care of individual patients. Whilst
structure and process measures give limited insight on their own into the quality of neonatal care, we believe such professional service standards provide an important starting point for Quality Improvement work to improve baby and family outcomes.

These Neonatal Service Quality Indicators are based on professional consensus about what defines a high quality neonatal service, and they aim to prompt voluntary self-review by neonatal services and to stimulate a move towards making quality the main driver for future development. The document does not aim to stigmatise units or to be a template for regulation. It should be noted that these Quality Indicators have been developed separately from those proposed by the Quality Surveillance Team of NHS England to support peer review visits as part of the Neonatal Transformation Review.

**How should the Service Quality Indicators be used?**

**Neonatal Units:** These Service Quality Indicators are primarily intended as an aid to neonatal units, who should review their performance using the accompanying Quality Checklist to allow them to define improvement priorities in a Quality Strategy, and produce an outward-facing Annual Report using the Annual Report template.

**Networks:** Networks should use unit Annual Reports to review network level Quality Indicators and to oversee the performance of their units in order to assess and improve network patient pathways.

**Parents:** Parents should have ready access to information on how their unit/network performs and is working towards fulfilling these Service Quality Indicators.

**Commissioners:** It is recommended that performance of neonatal services against these Service Quality Indicators, or a record of work towards attaining them, directly informs the commissioning process.

**Benchmarking:** We would encourage organisations responsible for benchmarking to consider publishing comparative data on some of the measures described here to enable transparency and impetus for improvement.
High Quality Neonatal Care in the UK
How do we achieve it?

BAPM Neonatal Service Quality Indicators (NSQI)
- Evidence-based care
- Team working and collaboration
- Parental partnership in care
- Benchmarking
- Patient Safety
- Quality Improvement
- Training
- Research

Continuous Quality Improvement

The NSQI Quality Report

Other Standards
- BAPM Service Standards for Hospitals Providing Neonatal Care 2010
- BAPM Categories of Care 2011
- BAPM Optimal Arrangements for NICUs 2014
- NICE guidelines
- DoH Toolkit for high quality neonatal services 2009
- NHS Improvement publications
- NICE Quality Standard for Specialist Neonatal Care 2010
- Neonatal Care in Scotland: A Quality Framework 2013
- All Wales Neonatal Standards 2013
The Service Quality Indicators

The Neonatal Service Quality Indicators presented here relate to the six domains of Quality defined by the Institute for Healthcare Improvement (10), namely Effectiveness, Safety, Patient (Family) experience, Efficiency, Timeliness and Equity. The Bliss Baby Charter (7) has defined elements of a neonatal service relating to Family Experience in more detail.

We have ordered the current Quality Indicators under headings signifying facets of the working of a neonatal service, grouped under broader subject headings, to make self-assessment and improvement planning easier for units.

EVIDENCE-BASED CARE

Evidence-based practice aims to provide the most effective care available for babies, and the best use of limited health resources (11).

NSQI 1 Care Guidelines supported by Audit

Quality Indicator

All neonatal units should have a set of readily accessible evidence-based guidelines relevant to all commonly-encountered clinical conditions and interventions seen in their practice. They should also have a rolling programme of guideline development and review informed by regular audit, aligned with the unit’s quality improvement strategy.

Rationale

Having up to date, easily accessible guidelines is an integral part of an effective clinical service, particularly in the context of shift working, and a large number of relatively inexperienced and often non-permanent staff delivering care. There is some evidence that structures and processes of care and some outcomes can be improved with the use of evidence-based guidelines (12)(13).

Quality Measures

1. A unit lead for guidelines and audit

   Guidance on best practice: Units should have a lead for guidelines and audit with time commitment in their job plan appropriate to the size of the service.

   Oversight: Unit

2. Neonatal-specific guidelines for common conditions and interventions (see list in Appendix)

   Guidance on best practice: Guidelines should be neonatal-specific, multi-professional and where appropriate multidisciplinary and written following the RCPCH Standards for Clinical Guidelines.

   Oversight: Unit

3. Shared guidelines across a network

   Guidance on best practice: Clinical guidelines should be shared across a network, except where they need to reflect the details of a local service.

   Oversight: Network

4. Clinical guidelines up to date

   Guidance on best practice: Guidelines should be reviewed at multi-professional guideline meetings to which all relevant professional groups and parent representatives are invited.

   Each guideline should be reviewed at least every 3 years.

   Oversight: Unit
TEAM WORKING AND COMMUNICATION

There is considerable evidence that team working within organisations leads to an improvement in productivity, both in quantity and quality (14).

NSQI 2 Team Communication

Quality Indicator

Neonatal services should have mechanisms of team communication in place to support patient safety.

Rationale

Neonatal staff work in a stressful environment and effective team working is key to delivering high quality care. Effective communication of threats to patient safety is an increasing challenge in the shift-based workplace, and a number of tools have been used to address this. Pre-task Safety Briefings in healthcare, also termed “pauses” or “huddles”, started in surgical settings. Morning briefings have been used to alert staff to current issues related to patient safety, and to help reinforce a team culture. Healthcare professionals have started to realise the importance of the quality of communication during patient handover. The WHO has made “Communication during patient handovers” one of its five patient safety initiatives (15). Personnel in a team not feeling able to act outside a perceived hierarchy, particularly in acute situations, may lead to preventable harm (16). Debrief of the team involved in major incidents provides an opportunity to defuse stress, learn from team experiences and develop strategies for future events (17)(18).

Quality Measures (contd.)

5. A rolling programme of audit of practice and a mechanism for acting on results

Guidance on best practice: There should be continuous audit of care and of compliance with guidelines, and a clear record kept of the process and findings. Any shortfall in practice identified should be followed up with action and further audit overseen by the Quality Team and carried out in a timely way.

Oversight: Unit

Best practice (general)

Data relating to local audit should be displayed so that they can be viewed and understood by both parents and staff. All trainees should be directly involved in the clinical audit process and in the development of clinical guidelines.
Guidance on best practice: All members of staff involved should be given the chance of a
debrief following a death or serious adverse event. This should allow discussion of emotional
responses and team working.

Oversight: Unit

4. Escalation pathways and training

Guidance on best practice: There should be escalation pathways readily accessible to all staff,
and training in escalation including a strategy for speaking up in emergency situations.

Oversight: Unit

Best practice (general)
The elements of team communication in this Quality Indicator should form part of the assessment
of training progress for paediatric trainees and appraisal for consultants.

NSQI 3 Staff Safety Culture

Quality Indicator

Neonatal services should regularly engage with staff about their experience in the workplace, and
particularly the way in which it relates to patient safety.

Rationale

Assessing the Safety Culture of an organisation is considered a leading indicator of practice in
relation to safety (as opposed to lagging indicators such as retrospective chart review) and many
different tools have been developed to survey this (19) including a Safety Climate Survey developed
as part of the S.A.F.E. project for the Royal College of Paediatrics and Child Health (20). Interactive
learning boards can help build shared values within a team by enabling clinical leaders to share
organisational priorities and challenges and staff to feed back problems they face (21).

Quality Measures

1. Regular Safety Culture Survey

Guidance on best practice: Anonymous Safety Culture Surveys should be conducted at least
every two years using a validated questionnaire, with feedback to staff. This should include
questions about the quality of team working with other teams, in particular, maternity. A
survey should be repeated within 9 months of implementing changes to assess their impact.

Oversight: Unit

2. Action plan in response to last Safety Culture Survey

Guidance on best practice: There should be an action plan produced in response to each
Safety Culture Survey which is followed through in a timely way. Actions should be assigned a
timeframe for implementation, as short term (2 months) medium term (6 months) and long
term (longer than 6 months). The Quality Team should review the plan and its implementation
on a regular basis.

Oversight: Unit

Quality Measures (contd.)

3. Interactive learning board or equivalent

Guidance on best practice: All neonatal units should have a mechanism such as a learning
board for clinical leaders to learn about and respond to problems faced by staff and for them
to communicate with staff the priorities of the service, and which aspects are going well and
which are not.

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Oversight: Unit

NSQI 4 Pathways of Care and Referral for high risk babies

Quality Indicator

Networks should have oversight of the appropriateness of the care pathways for high risk babies, in particular those that involve in-utero and ex-utero transfers.

Rationale

There is good evidence that high risk babies have better outcomes when cared for in a neonatal unit of an appropriate level (2) (5).

Quality Measures

1. Network guideline on care pathways for high risk pregnancies and babies
   Guidance on best practice: There should be network guidelines on optimal location of delivery, neonatal care and referral and transfer for preterm babies born at different gestations of 23 weeks and above (see NSQI 11 for babies of less than 27 weeks’ gestation), babies with suspected perinatal hypoxia-ischaemia, babies with congenital abnormalities and other babies requiring specialist input.
   There should be guidelines shared with obstetrics about the approach to intra-uterine transfer of high risk pregnancies.
   Parents whose babies have to be transferred for care should be given verbal and written information about the transfer process and the unit to which their baby will be transferred. This should include information about the likely duration of the transfer, the hospital and ward to which the baby is being transferred, the name of the accepting consultant, and information about the receiving unit (see family experience). There should be a discussion with the parents about whether they can travel with the baby or alternatively, arrangements to meet them on arrival.
   Oversight: Network

2. Care pathway exception reporting
   Guidance on best practice: Networks should produce an annual exception report with a description of the plan to address exceptions to the appropriate pathway.
   Oversight: Network

NSQI 5 Collaborative multidisciplinary care for babies with complex conditions

Quality Indicator

There should be ready access to specialist input for babies with complex conditions, and planning and delivery of care should be shared by all relevant specialists.

Rationale

It is important that babies with complex conditions have their care supervised by the relevant specialists, and that parents have the opportunity to discuss their baby’s care with them. This should not be affected by geography or local politics. An NHS England review of neonatal surgical services has described what is considered best practice in this area (22).

Quality Measures

1. Network level guidelines on best practice in multidisciplinary care of complex babies, including the approach to planning of transfer and discharge
   Guidance on best practice: There should be network guidelines covering pathways of referral, the approach to shared care when needed, and discharge planning.
<table>
<thead>
<tr>
<th>Oversight: Network</th>
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<tbody>
<tr>
<td>2. Availability of specialist neonatal cover for 24 hours of the day in neonatal surgical units</td>
</tr>
<tr>
<td>Guidance on best practice: Neonatal surgical units, whether co-located with a NICU or not, should have round the clock specialist neonatal cover at the same level as specified for neonatal services.</td>
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<tr>
<td>Oversight: Network</td>
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<tr>
<td>3. Neonatal surgical unit compliance with the neonatal standards and guidelines of the local neonatal net</td>
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<tr>
<td>Guidance on best practice: Neonatal surgical units, whether co-located with a NICU or not, should deliver care compliant with the clinical guidelines of the local neonatal network.</td>
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<td>Oversight: Network</td>
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<tr>
<td>4. 24/7 availability of transport service between a neonatal surgical unit and NICU when they are not co-located</td>
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<tr>
<td>Guidance on best practice: There should be round the clock availability of a neonatal transfer service between neonatal surgical units and the regional NICU when they are not co-located. Networks which do not have access to a 24-hour transport service should conduct a review to determine what additional resources would be required and an action plan put in place to work towards this as quickly as possible.</td>
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<tr>
<td>Oversight: Network</td>
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<tr>
<td>5. Action plan for co-location of neonatal surgical units</td>
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<tr>
<td>Guidance on best practice: There should be an action plan for co-location of neonatal surgical units which are not on the same site as a NICU within 5 years.</td>
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<tr>
<td>Oversight: Network with Children’s service</td>
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<tr>
<td>6. Arrangements for specialist advice and on-site review for complex babies on neonatal units</td>
</tr>
<tr>
<td>Guidance on best practice: There should be timely access to specialist advice, review and parental discussion for complex babies on neonatal units. The definition of “timely” should be discussed and decided locally for common clinical scenarios.</td>
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<td>Oversight: Network</td>
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<tr>
<td>7. Multidisciplinary rounds or meetings including neonatal team and paediatric specialists</td>
</tr>
<tr>
<td>Guidance on best practice: In units caring for babies with complex conditions, there should be opportunities at least monthly for the specialty teams commonly involved (including neonatology, surgery, neurology and gastroenterology) to discuss cases and learn in a multidisciplinary context other than at the time of clinical referral.</td>
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<tr>
<td>Oversight: Network</td>
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<tr>
<td>Quality Measures (contd.)</td>
</tr>
<tr>
<td>8. Local guidelines on multi-professional and multidisciplinary perinatal palliative care</td>
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<tr>
<td>Guidance on best practice: There should be a locally agreed multi-professional (including medical, nursing and where relevant hospice staff) and multidisciplinary (including where relevant maternity, neonatal, psychological and community services) approach to palliative care planning and delivery, with clear guidance available for staff. The approach should be based on the BAPM Framework for practice (23). The Palliative Care Pathway by Together for Short Lives (24) is another helpful resource, and a National Bereavement Care Pathway is under development by the Stillbirth and Neonatal Death Society (25).</td>
</tr>
</tbody>
</table>
Oversight: Unit and Network

Best practice (general)
When a baby with a complex condition is ready for discharge or requires non-emergency transfer between a neonatal unit and another ward or hospital, there should be multidisciplinary planning.
The parents of babies requiring multidisciplinary planning of care should be able to speak directly and without undue delay with any specialists involved.

FAMILY PARTNERSHIP IN CARE
Understanding the needs of the family and supporting them during their time in the neonatal unit and following discharge is an important part of delivering a neonatal service. This will require units to engage closely with parents as part of the care team and will involve applying the principles set out in the DH Toolkit (2009), Scottish Quality Framework and the Welsh Neonatal Quality Standards, POPPY Report (2009) and Bliss Baby Charter (7). It is recommended that units undertake accreditation with the Bliss Baby Charter.

NSQI 6 Family facilities

Quality Indicator
Neonatal units should provide family facilities to maximise the time families can spend with their baby on the unit and reduce the stress and financial burden they face.

Rationale
Fulfilling the parental role for a baby admitted to a neonatal unit is challenging because of (a) the simultaneous major life events of childbirth and health problems in their baby and sometimes the mother (b) the difficulty of dealing at the same time with other family responsibilities such as work and other children (c) travel difficulties (d) the prolonged stay of a baby.

Quality Measures

1. Adequate parent facilities or a plan to address any shortfall

Guidance on best practice: All neonatal units should have family facilities as shown below (2), and where there is a shortfall units should have a clear plan to address these. The Bliss Baby Charter will assist you with this.

- 24 hour access to nutritious food and drink without charge for the resident carer, and ideally for both parents
- Clean and adequate kitchen facilities with provision to prepare hot meals and drinks
- Access to an overnight bed near the neonatal unit to allow the partner to stay by the cot-side with the mother and baby when they wish to do so (this should be in addition to rooming in facilities)
- Shower facilities for resident parents and appropriate storage (free of charge)
- Areas for siblings to be kept occupied, with consideration given to providing periods of supervision
- A family room that is comfortably furnished and provides access to relevant hospital and local and national support information
- A dedicated room for private consultations with parents
- Financial support, including free parking for both parents/carers
- An information stand for parents to learn about their baby’s condition, the neonatal service and local support

Oversight: Unit / Network
NSQI 7 Family involvement in care planning and delivery

Quality Indicator
Parents should be enabled to take an active part in the care of their baby and in decision-making about their baby’s care.

Rationale
Parents can feel disconnected from their baby in a neonatal unit because of their baby’s condition and separation from them, the stark surroundings, the alienating effect of medical equipment, and their lack of understanding of neonatal medicine and the implications for their baby. This can be overcome, to some extent, by reducing barriers and making them feel more like partners in care. The mother and newborn baby are a single unit to be considered together in a hospital setting and the parents are essential providers of care (including regular cares, breast milk provision and kangaroo care) to the baby.

Quality Measures

1. Parents should have unrestricted access to their baby

   Guidance on best practice: Parents should have unrestricted access to their baby at all times, allowing them to play a full hands-on role in their baby’s care and decision-making, which has proven benefits for both babies and families.

   Oversight: Unit

2. Staff should protect patient confidentiality during communication

   Guidance on best practice: All staff should be mindful of protecting patient confidentiality at all times while on the unit, in recognition of the fact that they may be overheard by families or visitors at any time; in particular, staff should ensure they have access to a private room to discuss a) any sensitive information that needs to be conveyed to and discussed with parents; b) any safeguarding or social care issues relating to a patient on the unit or their family.

   Oversight: Unit

3. Decisions about changes in care where parents may express a preference should always involve them

   Guidance on best practice: Every effort should be made to understand the particular information needs of each set of parents and for all decisions about care to be informed by parents, who should be encouraged and supported in the decision making process. Any intended change in care should be explained in plain language, and the parents should be allowed to ask questions and express their point of view. The discussion should be recorded in the baby’s notes. The parents should also be signposted to appropriate information resources, which can help them understand their baby’s condition, e.g. www.bliss.org.uk.

   Oversight: Unit

Quality Measures (contd.)

4. Parents should be invited to be present on consultant ward rounds

   Guidance on best practice: Parents should be actively encouraged to attend consultant ward rounds whilst their own baby is being discussed to enable them to understand the care their baby is receiving and contribute to discussions.

   Oversight: Unit

5. The informed consent of parents is taken and recorded where appropriate

   Guidance on best practice: For specialist treatments and procedures, informed consent should be obtained by a member of the specialty team and recorded in the baby’s case notes.
surgical procedures and some non-surgical treatments (which are specific to a centre), a signed consent form should be completed and retained. Units should have a clear policy on the requirements for consent.

Oversight: Unit

6. Parents are encouraged and supported in taking part in their baby's care

Guidance on best practice: Every parent (including fathers) should be taught how to carry out basic care for their baby (for example nappy changing, daily washing, comfort holding, feeding, skin to skin and weighing) and encouraged and supported in doing this. They should be encouraged to increase in their involvement in providing care during their baby’s stay, thus enabling parents to be confident primary carers for their baby.

Oversight: Unit

7. Organised and consistent support for breast milk expression and breastfeeding

Guidance on best practice: There should be structures and processes in place for providing support to mothers to express breast milk and to breast feed their baby. These should be in line with either the UNICEF Baby Friendly Initiative standards for neonatal units (26) and/or the Bliss Baby Charter (7).

Oversight: Unit

NSQI 8 Parent Information

Quality Indicator

Information should be provided for all parents of babies in a neonatal unit, describing the function and staffing of the unit and about common neonatal conditions and treatments.

Rationale

Neonatal care can be disempowering for families. Provision of basic information about the service, the staff involved, access and family facilities and the role of the parents can help minimise this. The document Gathering feedback from families when a baby dies provides advice on learning from parent experiences (27). The Patient Experience Network has produced guidance (with NHS England) on assistance for parents with learning disability (28).

Quality Measures

1. Offer of antenatal visit to unit when admission is anticipated during pregnancy

Guidance on best practice: When admission to a neonatal unit soon after birth is anticipated during pregnancy, prospective parents should be given the offer of an antenatal visit to the neonatal unit at the site where baby is expected to be cared for, if different to the mother’s booking hospital.

Oversight: Unit and Network

Quality Measures (contd.)

2. A “Welcome Pack” of information for parents of babies admitted to a neonatal unit

Guidance on best practice: All neonatal units should provide parents with a minimum of information in a “Welcome Pack” within 24 hours of their baby’s admission. This should include information about:

- The service offered
- Local unit information including
  - Accommodation
  - Parking
3. **“Meet the Staff” board with up to date staff photographs and an explanation of staff roles and dress code**

Guidance on best practice: Neonatal units should have a “Meet the Staff” board with up to date photographs of individual staff members and an explanation of staff roles and dress code.

Oversight: Unit

4. **Bereavement Lead**

Guidance on best practice: Every neonatal unit should have a bereavement lead with responsibility for this area of care.

Oversight: Unit

5. **Organised and sensitive approach to giving difficult news and to bereavement**

Guidance on best practice: There should be appropriate facilities and a sensitive approach to giving difficult or bad news and dealing with bereavement. This should be in line with the Bliss Baby Charter (7) and training should be accessible to professionals.

Oversight: Unit

6. **Early first communication from senior team member**

Guidance on best practice: (This is benchmarked by the National Neonatal Audit Programme). There should be a documented consultation with parents by a senior member of the neonatal team within 24 hours of admission (this should be a consultant or second tier medical trainee, or a nurse practitioner operating in such a role).

Oversight: Unit

7. **Information accessible to families with communication difficulties**

Guidance on best practice: Written information for parents should be available in all languages commonly used in the population served. An interpretation service should be available round the clock, and used whenever information needs to be conveyed in medical or nursing contexts when any parent has difficulty communicating in English. When parents have communication difficulties because of neurosensory or learning problems, appropriate specialist help should be sought.

Oversight: Unit

**NSQI 9 Parent feedback**

**Quality Indicator**

Networks should work to create surveys about the experience of parents drawing, for instance, on the National Parent Survey questions 2010 and 2014 conducted by Picker Institute (29). Neonatal units should use feedback from parents to inform quality improvement. For examples of these, refer

**Rationale**

Parents have a unique perspective on the care of their baby, and knowing about their experience and how it could be improved should form part of any review of quality of care.

### Quality Measures

1. **A survey of parents conducted within the past year**

   Guidance on best practice: A unit survey of parents’ experience of care should be carried out at least every year. Parent experiences should be reviewed frequently, with action plans implemented soon after analysis of feedback.

   Oversight: Unit

2. **An accessible mechanism for anonymous comments from parents**

   Guidance on best practice: There should be a mechanism in every unit, accessible to all parents, to enable them to provide anonymous comments and feedback at any time, and these should be responded to without undue delay.

   Oversight: Unit

3. **A Communication Board with up to date information about the unit response to individual items of parent feedback**

   Guidance on best practice: All neonatal units should inform parents of what they have done in response to feedback in the form of a “You said, we did” Communication Board.

   Oversight: Unit

4. **A network parent advisory group**

   Guidance on best practice: All neonatal networks should have a parent advisory group which provides oversight of family considerations in the network. Parent advisors should be supported by having their expenses paid and having training and supervision in their role. Consideration should be given to having representation on the Network Board from particular groups of parents, including those who have had term, preterm and multiple births and those who have had a bereavement.

   Oversight: Network

**Guidance on Best practice (general)**

Feedback from parent surveys should be shared with families and staff. Neonatal units should use feedback from parents to inform quality improvement. Feedback should be responded to promptly.

### NSQI 10 Parent involvement in service development

**Quality Indicator**

Neonatal units and networks should have systems in place to involve parents in clinical and service developments aimed at improving the service.

**Rationale**

Parents, with their unique perspective on the care provided by neonatal units, can play a useful role in informing the process of quality improvement and service developments as a whole.
Quality Measures

1. Parent involvement in developments aimed at improving service delivery

Guidance on best practice: There should be a process in every neonatal unit to involve parents in planning services, and in service developments including Quality Improvement. The parents involved in this process should be supported by having their expenses paid and having training and supervision in their role. The network parent advisory group should be involved in steering this process.

Oversight: Unit and Network

BENCHMARKING

Benchmarking is an important way that neonatal services can assess themselves against national and international standards (30).

NSQI 11 Other Neonatal Service Standards

Service Standards already exist in relation to the organization of neonatal services and optimal staffing. Adherence to these is essential to a neonatal service in delivering good outcomes.

- Service Standards for Hospitals providing Neonatal Care 2010 (1)
- Optimal Arrangements for Neonatal Intensive Care Units in the UK including guidance on their Medical Staffing 2014 (31)
- Department of Health Toolkit for High Quality Neonatal Care 2009 (2)
- Service Specification for Neonatal Critical Care 2012 (3)
- NICE Standards for Neonatal Specialist Care 2010 (for England) (4)
- Neonatal Care in Scotland: A Quality Framework 2013 (for Scotland) (5)
- All Wales Neonatal Standards 2013 (for Wales) (6)
- The Bliss Baby Charter (7)

Quality Indicator

Units and networks should be able to demonstrate that they fulfil the Service Standards laid out in the following documents, or be able to show how they are working towards them.

Rationale

These are basic standards relating to the provision of neonatal care, agreed to by professionals and by the governments of the UK nations.

Quality Measures (contd.)

1. Unit’s performance reviewed against existing neonatal service standards

Guidance on best practice: Each unit should produce a summary of information relating to Service Standards in their Annual Report (see separate document “Annual Report Template”).

Oversight: Unit

2. A plan to rectify shortfalls against service standards

Guidance on best practice: Each unit should have an annually documented plan to rectify any shortfalls against Service Standards.

Oversight: Unit

3. Regular review of contract for providing neonatal services with commissioners or equivalent
Guidance on best practice: Each network should have at least annual discussion of the contract for provision of neonatal services with commissioners or with the equivalent in the devolved nations, and this should include a plan for remediying any shortfall.

Oversight: Network

4. Services which need to be commissioned with a neonatal service

Best practice: The following should be commissioned as part of the neonatal service:

- Transfer services
- Maternity bed and neonatal cot location services
- Family-centred care, including psychological support for mothers and families
- Follow-up services, including structured neurodevelopmental assessment of at-risk groups
- Allied health professional support during and following neonatal care.

Oversight: Network

5. Babies <27 weeks gestation delivered on same site as NICU

Best practice: (This is benchmarked by the National Neonatal Audit Programme). Babies born at less than 27 weeks gestation should, where possible, be delivered in a maternity service on the same site as a network-designated NICU.

Oversight: Network

NSQI 12 Engagement in National and International Audit and Benchmarking

Quality Indicator

There are now rigorous processes for UK-wide neonatal audit and benchmarking, as well as international systems for this. All neonatal services should actively engage in the UK national processes and have systems in place to continuously review their performance for the relevant measures.

Rationale

Healthcare benchmarking, when linked to collaborative quality improvement initiatives, has the potential to add an extra dimension to approaches to improving care, as has been shown with the Vermont Oxford Network (17)(18).

Quality Measures

1. Unit lead clinician for national audits

   Guidance on best practice: Neonatal units should have a lead clinician for national audits with designated time in their job plans for this.

   Oversight: Unit

2. Involvement in all mandatory national benchmarking processes

   Guidance on best practice: All neonatal services should be part of NNAP (the National Neonatal Audit Programme) and MBRRACE-UK (Mothers and Babies: Reducing Risk through Audits and Confidential Enquiries across the UK) and any other mandatory national benchmarking processes.

   Oversight: Unit

Quality Measures (contd.)
3. Action plan to address outlier status

Guidance on best practice: Units and networks should have documented evidence of action plan to address outlier status within 3 months of identification.

Oversight: Unit and Network

PATIENT SAFETY

NSQI 13 Adverse Event Review

Quality Indicator

Neonatal services should have a formalised approach for systematic review of every adverse event with selected escalation to serious adverse event review.

Rationale

The Francis inquiry highlighted the need for a patient-centred culture with collection, reporting and analysis of patient safety information (21). International reviews of patient records suggest that between 4 and 17% of hospital admissions are associated with an adverse event. A review in two London hospitals showed an overall incidence of adverse events in hospitalised patients of 10.8%, with half of these judged preventable, and one third leading to moderate-severe disability or death (22). There are many barriers to reporting adverse events including fear of the consequences and a well-founded lack of belief that reporting will lead to improvement (23).

Quality Measures

1. Unit guidance on adverse event reporting, including triggers for reporting

Guidance on best practice: There should be clear guidance for staff on the approach to reporting of adverse events which should follow national guidance (for England, the Serious Incident Framework, SIF (32), for Scotland, Learning from Adverse Events: A National Framework (33). Units may choose to use a trigger list as an aid to staff new to a unit, but such a list should not be considered exclusive and staff should be encouraged to report any unintended or unexpected incident which could have, or did, lead to harm for one or more patients. There should be a system in place to feedback learning from reported incidents to staff.

Oversight: Unit

2. Multi-professional adverse event review meetings

Guidance on best practice: There should be unit level multi-professional meetings at least once a month to review adverse events which involve senior and junior medical and nursing staff. There should be a mechanism to investigate adverse events at network level where appropriate, and for network level oversight of the governance relating to adverse event review.

Oversight: Unit and Network

3. Timely review of, and response to, adverse events

Guidance on best practice: Adverse events should be reviewed and an action plan developed within one month of reporting with clear time frames for completion of each action. Actions should include review of practice by means of audit, where appropriate, to minimise the risk of recurrence.

Oversight: Unit
Quality Measures (contd.)

4. Parent involvement in adverse event reviews

Guidance on best practice: Serious incidents should be managed in line with statutory Duty of Candour (where relevant). Parents should be encouraged to provide their perspective(s) to the review and should be informed of its outcome where possible.

Oversight: Unit

NSQI 14 Death and Serious Adverse Event Review

Quality Indicator

Neonatal services should have a formalised approach for systematic review of every perinatal death with selected escalation to serious adverse event review.

Rationale

Local review of deaths in hospital and serious adverse events is accepted as best practice in the NHS. The Healthcare Quality Improvement Partnership (HQIP) has commissioned the development of a tool for the review of perinatal deaths on behalf of the NHS in England, Scotland and Wales (24), and this has been acknowledged as important in the NHS England Maternity Services Review (25) and the Scottish Child Death Review (34). The key purposes of death reviews include (a) the identification and local dissemination of learning, whether or not considered to be avoidable contributors to death (b) involvement of and feedback of the outcomes to the family.

The local death review process should be carried out using national guidance (for England, the Serious Incident Framework (32)), and can be conducted in parallel with the mandatory Child Death Overview Panel (CDOP) review of child deaths in England, the equivalent national system in Wales, and those being developed in Scotland and Northern Ireland.

Quality Measures

1. A unit Neonatal Mortality Lead

   Guidance on best practice: There should be a neonatal mortality clinical lead responsible for recording details of all deaths both as a basis for local death review and the MBRRACE and Each Baby Counts national audits.

   Oversight: Unit

2. Regular multi-professional and multidisciplinary mortality reviews

   Guidance on best practice: Mortality reviews should be carried out with involvement of the medical and nursing team and other specialties including pathologists and other hospitals involved in care where relevant, as specified in the Perinatal Mortality Review Tool.

   Oversight: Unit and Network

3. Timely review of neonatal deaths

   Guidance on best practice: Mortality reviews should be carried out in a timely way following a baby's death using the Perinatal Mortality Review Tool (currently under development).

   Oversight: Unit

Quality Measures (contd.)

4. Death reviews carried out to national standards
Guidance on best practice: Mortality reviews should be carried out to the standards of the NHS England Serious Incident Framework (32) and the NHS Scotland Child Death Review Report (34) using the Perinatal Mortality Review Tool.

Oversight: Unit

5. Criteria for Serious Adverse Event Review
   Guidance on best practice: There should be clear criteria for initiating a Serious Adverse Event Review, and these should reflect national guidance where available (32).

   Oversight: Unit

6. Regular multi-professional and multidisciplinary Serious Adverse Event reviews
   Guidance on best practice: All neonatal services should hold Serious Adverse Event Reviews with representation from all relevant professional groups and specialties and other units in which the baby has spent time.

   Oversight: Unit

7. Serious Adverse Event Reviews follow guidance
   Guidance on best practice: The conduct of Serious Adverse Event Reviews should fulfil the requirements in National Standards where available (32,33) and those in the NSQI guidance.

   Oversight: Unit

8. Reports of Serious Adverse Event and Mortality review involve the family
   Guidance on best practice: Parents and family members should be able to input into the review of serious adverse events and deaths by informing the terms of reference and by providing evidence. Serious adverse events and deaths should result in reports which are shared with the patient’s family which must be shared with the patient’s family in formats they feel comfortable with, for example, through a face-to-face meeting.

   Oversight: Unit

9. Network level approach to review of and learning from Mortality Review
   Guidance on best practice: There should be a mechanism at network level for reviewing deaths and learning from these with a view to improving mortality.

   Oversight: Network

QUALITY IMPROVEMENT

NSQI 15 Structure and Resources for Quality Improvement

Quality Indicator
Neonatal units should have Medical and Nursing Quality Leads and a multi-professional Quality Group which takes the role of developing, publicising and overseeing the unit’s Quality Strategy.

Rationale
It is only by focussing work through Quality Leads and a Quality Group involving all professional groups can audit (quality assurance), incident review, guidelines of practice and improvement work be coordinated and a meaningful quality strategy be developed and implemented (15)(16).

Quality Measures

1. A multi-professional unit Quality Team
   Guidance on best practice: Each unit should have a Quality Team, which includes medical and nursing members and at least one parent representative, and meets at least four times per year.
to consider the unit’s performance against these Quality Standards. This Quality Team should consider all aspects of the unit’s Quality and Patient Safety work, and produce an annual Quality Report. The Quality Team should seek input from other professionals, including pharmacists and microbiologists, when relevant. Of particular importance are the maternity safety leads (obstetric and midwifery maternity safety champions in England and the Maternity and Children Quality Improvement Collaborative leads in Scotland), with whom relationships should be built and issues of mutual relevance explored. The parents involved in this process should be supported by having their expenses paid and having training and supervision in their role.

Oversight: Unit

2. Unit Medical Lead for Quality

Guidance on best practice: Each unit should have a medical lead for Quality and Patient Safety who has dedicated time in their job plan for this role proportionate to the size of the unit.

Oversight: Unit

3. Unit Nursing Lead for Quality

Guidance on best practice: Each unit should have a nursing lead for Quality and Patient Safety who has dedicated time for this role proportionate to the size of the unit.

Oversight: Unit

**NSQI 16 Annual Quality Strategy and Quality Report**

**Quality Indicator**

Units should publish a Quality Strategy and a section in the Unit Annual Report describing how the unit is performing against these Quality Standards and also describing their Quality and Patient Safety work. This should reflect national priorities (for example from the National Maternity and Newborn Safety Collaborative and the Scottish Patient Safety Programme).

**Rationale**

The unit Quality Strategy and Annual Report will provide a focus for improvement and allow local review of progress.

**Quality Measures**

1. A current unit Quality Strategy

   Guidance on best practice: Each unit should have a Quality Strategy, published within the last year, outlining the Quality initiatives planned for the year ahead and how these priorities relate to the Neonatal Service Quality Indicators. Parent representatives should be involved in the development of the Quality Strategy, and families should have access to this and Annual Quality Reports.

   Oversight: Unit

2. A Quality Report for the last year

   Guidance on best practice: Each unit should have a Quality Strategy published within the last year, outlining the Quality initiatives planned for the year ahead, and how these priorities relate to the Neonatal Service Quality Indicators. This should be done in collaboration with the maternity team where relevant.

   Oversight: Unit

**Quality Measures (contd.)**
3. A unit QI Programme

Guidance on best practice: Each unit should have a programme of Quality Improvement linked to local audit, national and international benchmarking, adverse event review and parent feedback. All trainees should be involved in quality work linked to the unit’s Quality Strategy, and should be given access to the Quality Report. There should be opportunities for nursing involvement in Quality work.

Oversight: Unit

EDUCATION AND TRAINING

NSQI 17 Training for Quality and Patient Safety

Quality Indicator

Units should have a culture that supports training, with regular training opportunities for medical and nursing staff both at the bedside and in the classroom. Appropriate training in Quality and Patient Safety should be undertaken by all staff.

Rationale

A knowledgeable and up to date workforce will improve quality and reduce risks to patient safety. Health Education England recently commissioned Imperial College London to carry out research into the role of Education and Training in Patient Safety (35). Most of the evidence regarding the benefits of training in this area relate to simulation training, teamwork training and the use of social media in training. The positive effects found relate mainly to changes in delegate reaction to training, their level of knowledge and their behaviour following the training, with little if any evidence of effect on patient safety. Other promising approaches include self-audit, morbidity and mortality conferences, team-based learning, crew resource management (taken from the airline industry), and inter-professional education. The NHS England Maternal and Neonatal Health Safety Collaborative (36) and the NHS Scotland Maternity and Children Quality Improvement Collaborative (36) provide training and support for Quality Improvement, and these should be the routes of choice for accessing training in these nations.

Quality Measures

1. Quality and Patient Safety in induction of new medical and nursing staff

Guidance on best practice: New members of medical and nursing staff should have an introduction to the unit’s quality and patient safety culture and goals within the first two weeks of starting in a neonatal service.

Oversight: Unit

2. Training for junior medical and nursing staff in Quality Improvement

Guidance on best practice: Paediatric trainees and neonatal nurses in training should receive teaching and training in Quality and Patient Safety.

Oversight: Unit

3. Training for consultants in Quality Improvement

Guidance on best practice: Consultants should have training in Quality and Patient Safety and Quality Improvement methodology sufficient to lead the Quality work of the unit.

Oversight: Unit

NSQI 18 Engagement in Shared Learning about Quality of Care
**Quality Indicator**

Neonatal professionals should be involved in shared learning about Quality and Patient Safety, involving medical and nursing staff and all components of a clinical network.

**Rationale**

It is generally agreed that multi-professional shared learning involving within an organisation is important in order to ensure a common understanding and set of values (37).

**Quality Measures**

1. **Multi-professional meetings on Quality and Patient Safety**
   
   Guidance on best practice: Units should have meetings providing an opportunity for medical, nursing and other staff to learn together about Quality and Patient Safety. Multi-professional meetings may include critical incident meetings, mortality and morbidity and other case review, presentations of audit, guidelines and quality improvement projects.
   
   Oversight: Unit

2. **Network meetings on Quality and Patient Safety**
   
   Guidance on best practice: Networks should hold periodic meetings to allow staff to learn about Quality and Patient Safety, and share good practice.
   
   Oversight: Network

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**RESEARCH**

**NSQI 19 Engagement in Research**

**Quality Statement**

All neonatal services should engage in research activities appropriate to their size and activity.

**Rationale**

Involvement in research by healthcare providers improves the delivery and scrutiny of care (19) and may improve the outcomes of healthcare, even when the patient receives a placebo (20). Parents also perceive units that have a significant research programme as offering high quality clinical care to their baby (38).

**Quality Measures**

1. **A named unit research lead**
   
   Guidance on best practice: All neonatal units should have an identified research lead, who link with the Neonatal Clinical Studies Group and local research networks.
   
   Oversight: Unit

2. **Record of research activity and research strategy**
   
   Guidance on best practice: Neonatal units should make every effort to recruit babies into clinical research. They should record the number of research studies recruited to and the number of babies recruited in the past year, and develop a plan for the future including approaches to improving research involvement.
   
   Oversight: Unit
<table>
<thead>
<tr>
<th>Quality Measures (contd.)</th>
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<tr>
<td>Guidance on best practice (general)</td>
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<tr>
<td>All staff recruiting babies to research and having consent discussions with families should be trained in Good Clinical Practice for research. Information about research, and in particular research being conducted in their unit should be made readily available to parents.</td>
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Appendix

Minimum set of guidelines

- Resuscitation of term infants
- Resuscitation and stabilisation of preterm infants
- Respiratory support in term and preterm infants
- Stabilisation and care for a baby requiring intensive care until transfer
- Fluid management
- Feeding management
- Breast feeding support
- Approach to antisepsis
- Management of jaundice
- Management of hypoxic ischaemic encephalopathy
- Management of seizures
- Management of suspected sepsis
- Management of common surgical problems
- Management of hypoglycaemia
- Management of the cyanosed baby
- Referral pathways
- Screening and (if relevant) treatment for retinopathy of prematurity
- Transfusion of blood products
- Management of the infant with hypoxic ischaemic encephalopathy
- Management of common congenital abnormalities
- Palliative care
- Analgesia and sedation
- Oxygen targeting and management
- Home oxygen pathway
- Follow up of high risk infants
- Indications, insertion and use of peripheral and central lines

Additional list for NICUs and LNUs (where appropriate)

- Retinopathy treatment
- Care of babies following surgery
- Parenteral nutrition
- Management of complex congenital malformations
- Management of persistent pulmonary hypertension of the newborn
- Indications and referral pathway for ECMO
- Management of a baby requiring ECMO

Guidance on Quality Indicators

1. Adverse Event Reporting

It is helpful for units to have a list of triggers for Adverse Event reporting readily accessible to all staff. Triggers relate to morbidities or incidents that might be avoidable and are thus worthy of a case review.

Specific Neonatal Triggers for Datix reporting

- Neonatal death
- HIE grade 2 or 3 in infants > 34 weeks’ gestation
- Meconium aspiration syndrome (typical CXR changes and FiO2>30%)
• Undiagnosed congenital anomaly
• Birth injury
• Unplanned term admission requiring any ventilatory support or volume resuscitation
• Bilirubin at or over exchange level
• Hypothermia <36°C (Not therapeutic hypothermia)
• Hypoglycaemia <1 mmol/l or symptomatic hypoglycaemia < 2 mmol/l
• Failure to take cord bloods for ongoing neonatal care (does not include cord pH)
• Refusal of in utero or ex utero transfer due to capacity/staffing
• Overcapacity
• Unexpected readmission to the neonatal unit
• Baby abduction
• Abandoned baby
• Missed/delayed blood spot screening
• Missed/delayed retinopathy screening
• Administration of the wrong maternal breast milk

Generic Triggers for Datix reporting
• MRSA colonisation or infection
• Discharge against medical advice
• Staff shortage
• Drug administration error
• Drug prescription error
• Adverse drug reaction
• Incident resulting in harm to staff
• Incidence of violence/aggression to staff
• Equipment failure

2. Team debriefs

The debrief of teams following critical incidents is important to learn from team experiences and develop strategies for future events (refs 7 and 10 from reference below). The following evidence-based recommendations can be considered when establishing a process for conducting team debriefs (39).

1) The service and organisations should create a supportive learning environment for debriefs.
2) Team leaders should be knowledgeable about best practice in leading a debrief, including tone setting, goal setting, facilitation of discussion, and guidance of the team in the process of reflection and learning.
3) All members of the team should be knowledgeable about factors affecting team performance for optimal analysis of team behaviour.
4) The debrief should take place as close as possible in time to the event to improve memory and facilitate learning for future events.
5) Team members should feel at ease during the debrief and have equal voice.
6) There should be a focus on key performance issues, including errors and examples of excellence.
7) Key team working processes that were exhibited during the team performance should be described, including planning, situation assessment, supporting behaviour, communication and leadership/initiative.
8) Feedback should be supported with objective indicators of performance and both individual and team-orientated feedback should be given.

9) The focus should primarily be about how well the team was working together rather than simply how well the team achieved its overall objective.

10) The conclusions of the debrief and any action points should be recorded to facilitate feedback in future debriefs.

Hospital leaders: should set an example of open support and encourage a climate of learning. Hospital leaders should provide training for clinicians in leading debriefs and for all staff in understanding team working processes.

Networks: should support the practice of team debrief in all neonatal units and support sharing of key learning points across the network where relevant

Parents: should expect that after a serious episode in their child’s care, a debrief will be conducted to support the staff who are providing ongoing care to their child, during which the clinical team will learn from reflection on their performance.

3. Guidance for other agencies
   • Recommendation to Royal Colleges (RCPCH and RCN): Quality and Patient Safety should be an integral part of training in paediatrics at all stages, and in QIS training for neonatal nurses.
   • Recommendation to GMC: All consultants should receive accreditation in Quality and Patient Safety and Leadership and annual appraisal should include review of Quality and Patient Safety work.
References

26. UNICEF. The Baby Friendly Initiative: Guidance for Neonatal Units.