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NICE guidance for developmental follow-up of children born preterm

The National Institute of Health and Care Excellence (NICE) guideline Developmental Follow-up of Children and Young People Born Preterm highlights potential risk factors to infant development and recommends enhanced surveillance and monitoring for infants born at less than 28 weeks’ gestation once discharged from the neonatal unit until four years uncorrected age. The guideline also recognises the importance of being able to provide parents and carers with the best available evidence about the developmental needs of infants born prematurely.

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Key points

1. Infants born preterm are at high risk of developmental problems and disorders.
2. Enhanced surveillance and support should be offered to all premature infants born below 30 weeks’ gestation until two years corrected age.
3. Infants born between 30 and 36 weeks’ gestation who have other risk factors should receive enhanced surveillance.
4. Infants born below 28 weeks’ gestation are at high risk of poor educational outcomes. In addition to enhanced surveillance and support, they should be assessed at four years uncorrected age.

More premature infants are surviving. The NICE guidance Developmental Follow-up of Children and Young People Born Preterm (NICE Guideline NG72) was published in 2017 to provide recommendations for infant follow-up based on the best evidence for identifying risk factors to watch for during early development. It aims to improve outcomes for these children by reducing variation in follow-up and, at the same time, enable benchmarking of neonatal care. It also sets out clear guidance for appropriate surveillance and support post-discharge from the neonatal unit during the pre-school years.

This short report summarises the NICE Guideline NG72, and highlights why it is important for both neonatal unit practitioners and community healthcare services to be aware of the contents of this document.

Bliss, the charity for babies born premature or sick, reports that 60,000 infants born in the UK will be premature. Typically, premature infants are those born below 37 weeks’ gestation. Subcategories include:

- extremely preterm (<28 weeks’ gestation)
- very preterm (28 to <32 weeks’ gestation)
- moderate to late preterm infants (32 to <37 weeks’ gestation).

Within these categories infants can additionally be small for their gestational age. The wide span of gestational birth ages and associated risks highlight the potential diversity in terms of ongoing longer-term support for infants born premature. The NICE guideline summarises that infants born prematurely can be at risk of developing a range of motor problems (e.g. cerebral palsy), executive functioning, learning, speech, language, feeding, eating and drinking difficulties. These problems are related to gestational birth age as well as neonatal, biological and maternal factors.

Specific research cited in the guideline identifies risk factors related to a variety of developmental problems and disorders. For example, infants born at less than 28 weeks’ gestation are at a high risk of intellectual disabilities and hearing impairment. In addition, severe brain lesions such as intraventricular haemorrhages grade 3 and 4, experienced by infants born at less than 34 weeks’ gestation, present an increased risk of developing autistic spectrum conditions. Severe retinopathy of prematurity is associated with an increased risk of motor function problems, visual impairments and, for infants born at <28 weeks’ gestation, intellectual disability.

The recommendations state that all preterm infants born before 30 weeks’ gestation, and those born between 30 and 36 weeks with specific and identifiable risk factors, should have enhanced support and monitoring up to two years corrected age. Infants born at or before 28 weeks’ gestation are offered support and monitoring up to four years uncorrected age because of the increased risks of special educational needs. Responsibilities for educating, supporting and reassuring parents and carers by referring to the best evidence available is an important aspect of the guideline, with identification of care pathways to enable developing infants to receive appropriate intervention and support once they have been discharged from the neonatal unit.

The core team recommended for
enhanced developmental support and surveillance should include a neonatologist or paediatrician who has developed specific knowledge and understanding related to premature infant development and outcomes. In addition there should be a specialist nurse (eg a community nurse or health visitor) along with at least one allied health professional such as a speech and language therapist, physiotherapist and/or occupational therapist. At four years uncorrected age, assessment by either a clinical psychologist or educational psychologist is recommended. Recommended assessment tools are listed for completion at follow-up appointments, for example use of the Parent Report of Children’s Abilities – Revised (PARCA–R) at two years corrected age. This parent evaluation includes identification of a child’s early play skills (eg object manipulation, symbolic play and pretend play) with some aspects of early language development (ie pointing). The early language section covers first words and the meaning of the communication skills that the child has acquired at the time of assessment.

The guideline quite rightly raises the issue that the impact of having a premature infant can have profound emotional and psychological ramifications for parents and carers. With this in mind it seems appropriate that neonatal unit staff should be aware of and have access to the guideline on the unit so that parents can be aware of and have access to the appropriate support. Neonatal unit staff should help and support the follow-up of children and young people born preterm (NICE Guideline NG72). 2017 Online at: www.nice.org.uk/guidance/ng72

2. Positioning and observations of motor skills

Positioning can help focus parent observations of infant comfort. In addition, parents can learn to observe motor patterns confidently, and therefore become alert to any possible risk factors.

3. Skin-to-skin care out of the incubator

Skin-to-skin experiences can help infant physiological stability. Parents can also experience how their infant reacts and therefore they will learn to read and provide confident communication support by being responsive communicators.

4. Pre-feeding and early feeding experiences: Baby Friendly initiatives

Parents and carers can receive support and gain confidence when preparing for oral feeding by learning to interpret their infant's hunger and satiation signs. They can also be supported to reduce risks of oral aversions by positive oral experiences. Communication skills can be encouraged during early feeding development.

5. Communication development

Supporting parents to interpret infant responses in all functional activities can support parent knowledge of infant preferences, expected responses and regulatory responses. Parent confidence with understanding infant communication style can lead to them developing competent communication partner skills for interaction with their infants. Parents can also be alert to any risk factors associated with communication that may arise.

### References

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