Measuring and improving the quality of NHS care for children and young people

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BACKGROUND

Children and young people (CYP) in the UK suffer worse health and well-being outcomes than their peers in comparable countries across a range of physical and mental health measures, including overall mortality and deaths from long-term conditions such as epilepsy, asthma and diabetes.1–6 While social determinants, in particular relatively high rates of child poverty, account for some of this mortality gap, there is growing evidence that many deaths could be prevented through more accessible and higher quality National Health Service (NHS) care.2,3

In addition, evidence suggests that the NHS care typically results in worse patient experience for young people aged 16–24 than older adults,7 and that there is sometimes objectively lower quality care for CYP than for adults. The UK ranked fourth out of 30 countries in a recent comparison of the quality of adult diabetes care, whereas the quality and outcomes for diabetes for patients aged 0–24 years lag well behind that of comparable countries.8–9 In addition to moral, public health and economic arguments for improving care quality for CYP, the UK also has legal obligations under the United Nations Convention on the Rights of the Child to provide the best healthcare possible (article 24) and to involve CYP in decisions that affect them (article 12).10–12

Validated and appropriate quality measures are necessary (but not sufficient) to improve care quality and health and well-being outcomes.13 CYP have historically been under-represented in many quality frameworks; for example, one 2015 study reported that 0/77 indicators in the Quality Outcomes Framework for primary care were applicable to CYP.14 Following the recommendations of the CYP Health Outcomes Forum,15 the number of indicators in the NHS Outcomes Framework has increased,16 and the perspectives of CYP using NHS services have been given greater weight in some settings.17 However, there has been limited response to many of the Forum’s recommendations, and many of the indicators that have been introduced are of limited benefit, as they have not been validated for this age group and/or CYP data are aggregated with those of older adults.

Building on previous recommendations by the Chief Medical Officer for England1 and the CYP Health Outcomes Forum,15 and as a follow-up to the publication of the Royal College of Paediatrics and Child Health (RCPCH) services standards,18 19 the RCPCH initiated a 2-year project to agree on 5–10 core quality measures for acute general paediatric care. The final 2016 report20 represents an important advance in bringing together key principles for measuring and improving quality in acute general paediatric services (see box 1), but the project was not able to reach agreement on its original goal. One key barrier was the lack of a common language and framework for understanding the purpose of measuring quality, what should be measured and how; we attempt to address these concerns in the sections below and in box 1. Another recurring issue was the lack of knowledge about existing quality measures and data sources. This was addressed by convening a workshop in May 2017 to which each relevant national body was invited to submit their existing measures, as well as related challenges and priorities for future work. A summary of this material is presented in table 1. Lastly, a relative lack of primary research was noted in developing, validating and implementing appropriate quality measures.21

KEY CONCEPTS IN QUALITY AND MEASUREMENT

Analysis of existing indicators and subsequent workshop discussions revealed a lack of clarity around the key questions relating to quality measurement: ‘Why measure?’ ‘What to measure?’ and ‘How to measure’. Box 1 summarises important concepts relating to these questions. The tensions and interactions between these factors can be complex and are often not fully appreciated.19

First, distinct indicators may be needed for different purposes—no single quality measure or set of measures is likely to be appropriate for the purposes of quality improvement (QI), quality assurance, research, and supporting informed choice. For example, measures that are appropriate for QI (where the focus is often on improving one or more aspects of care quality at the local level) may be less helpful if used for quality assurance (where the aim is to reduce variation and hold providers accountable for care quality, and may therefore require significantly greater rigour in data quality and attribution to individual services). However, services which engage in quality improvement and research typically have better leadership teams, safety records and clinical outcomes than other services, suggesting these activities may in themselves provide an added degree of assurance about care quality.21 22

Second, while the National Quality Board (NQB) framework emphasises the importance of a shared view of quality across patients and families, professionals, providers, commissioners and funders, and national bodies, there has been little work to understand the different perspectives between different groups. For example, the optimal balance between short-term pain or inconvenience and expected long-term benefit will often be viewed differently by children, their parents/carers and their doctors. Further, there is likely to be a wide range of views among CYP and their parents/carers on these issues; defining high-quality care may involve trade-offs between supporting patient/family choice and ensuring the best possible health and

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Lastly, while the NQB care domains are relevant to all age groups, adult-focused indicators and research will often need to be adapted and validated in order to be useful for CYP services. For example, although mortality is an important outcome for CYP—particularly for specific conditions and infants—death rates are fortunately much lower than among older adults. This highlights both the importance of publishing age-specific mortality rates, and the need for wider outcome measures that reflect long-term prognosis and quality of life, including resilience and attainment of lifelong goals. Similarly, although patient experience and patient-centredness of care have historically received much less attention for CYP than adults, and may need to be measured differently, CYP have the right to have their voice heard, they provide information which cannot be gleaned from other sources, and they consistently rate feeling listened to as their most important care priority from the age of 8 onwards.

KEY THEMES TO GUIDE FUTURE QUALITY MEASUREMENT WORK FOR CYP SERVICES

1. Increase awareness of, and engagement with, quality measurement for CYP
   Better quality measurement is key to improving health outcomes for CYP in the UK and is everyone’s business. In order to engage front-line staff, measures must be perceived as fair and relevant to improving outcomes for their patients and must not impose a disproportionate burden of data collection.

2. Improve collaboration and partnership working.
   No single organisation or group has the remit or resources to address all aspects of quality measurement for CYP. Coordinated working will support a common understanding of quality, avoid unnecessary duplication, facilitate learning and comparison across systems, and streamline the process of undertaking research and implementing research findings into routine quality assurance and QI practice.

3. Focus on what matters most to children, young people and families.
   Despite a welcome consensus about the importance of addressing children, young people and families’ (CYPF) priorities, many gaps remain in current quality improvement and assurance programmes and research in this area. Addressing these gaps must be a priority in order to understand how CYPF’s perspectives on quality may differ from those of other stakeholders, and how these perspectives can be explored and used.

4. Simplify where possible.
   Quality measures and quality frameworks should strike the correct balance between simplicity and rigour. Complex measures, which result in a significant additional burden of data collection on clinical staff, are unlikely to be widely adopted. However, it is recognised that different measures will be needed for different contexts and that simple, single measures may need to be complemented by wider balancing or contextual measures.

5. Combine existing and new data sources.
   Many aspects of quality could be measured by more rigorous or creative use of existing and routinely collected data sources. Using existing data from Hospital Episode Statistics and survey data from patients, families and NHS staff will minimise costs and the burden of additional data collection on clinical staff. However, some gaps can only be addressed through commissioning new data sources.

6. Link measurement to action.
   A workforce skilled in data analysis and QI methodology is essential so that better QI measurements can translate to sustained improvement in service quality. Similarly, quality assurance measures are very unlikely to have any sustained impact unless they are integrated with the existing frameworks for monitoring and inspecting service quality, such as those developed and used by the Care Quality Commission.

CONCLUSIONS AND NEXT STEPS
   We cannot hope to understand or improve the quality of care that CYP receive in the NHS if we cannot agree on what to measure, for what purpose and how to do that in a coordinated fashion. This article reports the early discussions of a collaboration between national bodies to articulate and plan a shared vision of quality measurement for health services for CYP.

   For national bodies, the first key recommendation is that, in future, quality measurement within NHS services for CYP should receive the same rigour and attention as within adult services. One example of this would be that appropriate validation and case-mix adjustment processes, which are routinely used for adult data, should be adapted and used.

well-being outcomes. Most importantly, young people have consistently highlighted the need for services and professionals to recognise and address their distinct needs, and take an integrated approach to meeting those needs.
for measures relating to CYP.27,28 Similarly, all relevant bodies should commit to working together and adopting a unified, evidence-based approach to quality measurement for CYP.

Regarding data challenges, we anticipate that some metrics will be derived from existing data, including clinical audits, primary and secondary care records, and patient experience surveys.

These metrics are likely to align with strategic priorities identified above, such as improving patient experience, delivering more joined up care, improving transition from children to adult services, preventing...
avoidable admissions to hospital and keeping CYP safe while in hospital. Other metrics are likely to link to place-based quality metrics, including the early development index. However, there is a recognition that as this endeavour progresses, we will have to look beyond existing data sets and traditional healthcare-centric perspectives. In many cases, there is a clear need for new data sets to be commissioned which measure what matters most to CYP and their families—from outcomes and experience of CYP in primary care to new measures of educational, social and vocational outcomes for CYP with long-term conditions.

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