Provision of care for families affected by craniofacial conditions: The views of non-specialist health professionals

3

4 Abstract

5 *Objective:* A diagnosis of a congenital craniofacial condition can have a significant impact on the 6 psychological wellbeing of the affected family. As the first health professionals likely to come into contact 7 with families, non-specialists, such as diagnostic sonographers, midwives, and health visitors play a crucial 8 role in facilitating familial adjustment. Yet, previous research has demonstrated parental dissatisfaction 9 with the care delivered by non-specialists. The aim of this study was to investigate the provision of care 10 for families affected by craniofacial conditions from the perspective of non-specialist health professionals, 11 with a view to informing the development of educational materials.

12 *Design:* Individual semi-structured telephone interviews (n = 14) were conducted with three diagnostic 13 sonographers, two fetal medicine consultants, three midwives, four health visitors, and two children's 14 nurses.

Results: Participants identified a range of barriers to the delivery of optimal care, including dealing with parental reactions, time pressure, hospital protocols and resources, a lack of contact with specialist craniofacial teams, and the emotional impact of delivering a diagnosis. Most participants had received no prior training in the area of congenital craniofacial conditions, while those who had felt current training materials were insufficient. All participants expressed a desire for further training and provided guidance regarding preferred content and format.

Conclusions: This study provides insight into the challenges faced by non-specialists, as well as a range of
 information and training needs which could improve their knowledge and confidence. Suggestions for the
 development of educational materials for non-specialist health professionals are made.

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25 Key words: craniofacial; cleft lip and palate; diagnosis; feeding; maternal health; training

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28 Introduction

In high-income countries, fetal anomaly screening at 18 to 21 weeks gestation now routinely includes 29 screening for a cleft lip (e.g. Public Health England, 2013). Other craniofacial anomalies may also be 30 detected during this scan. If identified, expectant parents are usually given a second appointment to confirm 31 the diagnosis and to discuss options with a fetal medicine consultant. A cleft palate is rarely detected during 32 33 antenatal screening, and therefore almost all are diagnosed following the birth. A visual assessment of the palate should be carried out, and additional craniofacial anomalies should be screened for (Royal College 34 of Paediatrics and Child Health, 2014). In all cases, a referral should be made to the specialist 35 cleft/craniofacial team within 24 hours of the diagnosis (Public Health England, 2013). 36

Whether identified antenatally or postnatally, a diagnosis of a congenital craniofacial condition can have a 37 significant impact on the psychological wellbeing of the parents, and the family unit as a whole (Nelson et 38 al., 2012a; Feragen & Stock, 2017). Parents have reported complex emotional responses to the diagnosis, 39 including grief, shock, anger, guilt, and worry (Nelson et al., 2012a), in addition to raised levels of stress, 40 anxiety, and depression (Stock et al., 2019a). Parents must grapple with feeding difficulties, process a 41 wealth of new medical information, and embark on a daunting, long-term multidisciplinary healthcare 42 43 pathway (Nelson et al., 2012b), which often involves surgical intervention within the first year of the child's 44 life.

As the first health professionals likely to come into contact with expectant or new parents, diagnostic sonographers, fetal medicine consultants, and midwives play a crucial role in facilitating parental adjustment to the diagnosis. These non-specialists must impart the news of the diagnosis to the family, explain the prognosis of the condition, discuss the option of further screening tests and termination of the pregnancy, and make the appropriate referrals. Midwives are also important in the delivery of a comprehensive feeding plan. Later, health visitors will take over responsibility for postnatal care from the midwives, and children's nurses will be on hand to support the family through early medical treatment.

Satisfaction with healthcare is a key predictor of parental wellbeing and familial adjustment (Stock et al., 52 2019a). Prior research has indicated that families value health professionals' expertise and interpersonal 53 skills, as well as the continuity and coordination of care (Knapke et al., 2010; Nelson & Kirk, 2013). While 54 the service provided by the specialist craniofacial teams is consistently highly rated (Nelson & Kirk, 2013; 55 56 Feragen et al., 2017), previous research has demonstrated parental dissatisfaction with the care delivered by non-specialist health professionals. During the diagnostic experience, parents have reported a lack of 57 knowledge among non-specialists about these conditions and their long-term implications, and/or the 58 delivery of inaccurate, inconsistent, or overwhelming information (Stock & Rumsey, 2015; Searle et al., 59 60 2016; Searle et al., 2018; Costa et al., 2019; Stock et al., 2019b). In the case of an antenatal diagnosis, parents have also reported feeling rushed to make decisions regarding further screening tests and/or 61 termination of the pregnancy (Searle et al., 2016; Stock et al., 2019c). Following the birth, the late diagnosis 62 of cleft palate, conflicting information surrounding feeding methods, and a lack of support during home-63 based care has also been described by parents (Lindberg & Berglund, 2014; Stock & Rumsey, 2015; Tierney 64 65 et al., 2015; Searle et al., 2016; Costa et al., 2019). In addition, specialist health professionals working within craniofacial teams have communicated that much of their initial consultations with parents are spent 66 67 trying to dispel myths, correct inaccuracies, and reduce parental distress, as a result of negative interactions 68 with non-specialist health professionals (Stock et al., 2019d).

While a breadth of research detailing parental dissatisfaction with the care provided by non-specialist health professionals now exists, few studies have pursued potential solutions. Further, the perspective of nonspecialist health professionals has remained absent from the literature. The aim of this study was to investigate the provision of care for families affected by craniofacial conditions from the perspective of non-specialist health professionals, with a view to informing the development of educational materials.

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75 Method

76 Design

This study utilised individual semi-structured telephone interviews to elicit the views of non-specialisthealth professionals working in a variety of disciplines.

79 *Procedure*

Ethical approval for the study was provided by the Faculty Research Committee at the University of the 80 81 West of England. Health professionals were invited to participate in the study using a variety of different 82 methods, including advertisements on social media and department-wide emails to university and hospitalbased staff. Potential participants contacted the researcher by email to express an interest in the study and 83 84 were subsequently sent information about what the study would entail, as well as ethical considerations, 85 such as their right to withdraw. A mutually convenient time to conduct the telephone interview was then agreed with each participant. Participants were given several opportunities to ask any questions throughout 86 their involvement in the study. Verbal informed consent from each participant was audio recorded before 87 the interview began. All interviews were conducted by the first author, who is trained in interviewing 88 89 methods. The interview itself consisted of four broad areas: health professionals' training and employment history and their understanding of their role; experiences of working with families affected by craniofacial 90 91 conditions; current approaches to service delivery for these families; and views on if and how services could 92 be improved. Interviews lasted 57 minutes on average.

93 Participants

Participants in this study (n = 14) included three diagnostic sonographers, two fetal medicine consultants, three midwives, four health visitors, and two children's nurses. Six participants also held an academic post at the time of the interview. Ten participants were female, and all participants were White British. The average length of time participants had spent working in their roles since qualifying was thirteen years (range 3-30 years). All participants were based in the UK and had prior experience of working with families affected by cleft lip and palate and/or other congenital craniofacial conditions.

100 Data Analysis

101 Interviews were transcribed verbatim and subjected to inductive thematic analysis. The following steps 102 were taken, in accordance with Braun and Clarke's 2006 guidelines: (1) becoming familiar with the data; (2) identifying interesting features of the data; (3) searching for themes; (4) reviewing themes; (5) defining
and naming themes; and (6) producing the report. Analysis was seen as a recursive process, and detailed
notes were written throughout. A high degree of commonality was found between interviews, and fourteen
interviews were deemed sufficient to address the research question effectively. Themes were subsequently
chosen for their prevalence and/or their importance (or "keyness") in relation to the research question. All
transcripts were analysed by the first and second authors, who are trained in qualitative analysis.

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110 **Results**

111 Thematic analysis identified two key themes within the data: 1) Barriers to the Delivery of Optimal Care; 112 and 2) Non-Specialists' Training Needs. Themes were consistent across all disciplines, and therefore data 113 were merged. Each theme, composed of several subthemes, is described in further detail below and 114 illustrated using exemplar quotes.

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116 Barriers to the Delivery of Optimal Care

117 Handling Parents' Reactions

Particularly in the case of the 20-week anomaly scan, participants reported that parents could often beunprepared for hospital appointments, and/or unaware of the purpose of an appointment.

120 *"Very often parents want pictures and they want to know the gender... Sometimes they bring their whole"*

121 *family and it's very much a social event. That's the problem really because it's an anomaly scan...they*

122 *don't always know why they are there"* – Diagnostic Sonographer #2.

Participants also highlighted that individuals can respond very differently to medical information and havedifferent information and support needs.

125 *"Every family is different, so every visit is different... We try to judge what each family understands and*

126 what information or support they might need... We have to assess on the spot and adapt quickly, and that

127 can be a real challenge... Even when you think you have a formula that works, you will find that it still
128 doesn't work for everyone" – Health Visitor #3.

129 *Time Pressure*

Participants stated that the limited time allocated to each of their patients could be a barrier to deliveringinformation sensitively, and to providing personalised care.

Diagnostic Sonographer #2: "Within 30 minutes we have to do the pre-counselling, the scan itself, take pictures, assess the gender of the baby, and deal with any anomalies, as well as fill out the paperwork and get a second opinion... You might also be running late and have the next patient waiting outside, so you are always under a fair amount of pressure".

136 Children's Nurse #1: "We might only get a small handful of opportunities to see the families before and 137 after their child has surgery...so you want to build that rapport and get as much information in that time 138 as you can, so you can work out how best to support them".

139 Hospital Protocols and Resources

Participants described how the delivery of a suspected diagnosis was affected in part by the hospitalenvironment.

Diagnostic Sonographer #2: "To be honest it's a minefield because...we don't have an environment which
is conducive to counselling parents when they're distressed... You just can't do it in a scan room".

144 Participants commented on how hospital protocols and resources often impact on the timeliness of referrals.

Diagnostic Sonographer #3: "It could be a Friday evening or Saturday morning when I'm scanning these women, and hardly any other staff are around... If Monday is a [national holiday] too or if someone is off sick then it won't even get to the doctor's desk until Wednesday. That's an unacceptable waiting time in my opinion".

Fetal Medicine Consultant #2: "How efficiently families get referred on can depend on whether you have *a fetal medicine department within the hospital where the scans are performed*".

151 Participants also reported inconsistencies in the delivery of care, both within and between hospitals.

Health Visitor #2: "The two other hospitals I've worked in, they did things very differently to the hospital
I'm in now... I know from speaking to colleagues that they approach situations in different ways... We don't
always agree on what is the best approach".

155 Working alongside Specialists

Participants described how it could sometimes be a challenge to make contact with specialist craniofacialteams.

Health Visitor #4: "The parents mentioned that I may be able to do a joint visit with the specialist cleft
nurse... I thought 'fantastic!' so the parents gave me the number and it just took weeks and weeks until I
was able to speak to somebody... I know they're as busy as anyone...but was really frustrating because I
knew the parents were relying on me".

162 In addition, participants reported a difference of opinion regarding how care should best be delivered.

Midwife #1: "I think there is a risk of conflicting advice... What can happen sometimes is that babies who struggle to feed go straight onto formula milk... I appreciate they may not be able to breastfeed, but my biggest concern is that clefts teams don't fully appreciate the nutritional benefits that come with breast milk...and the importance of baby-parent bonding".

167 Emotional Impact on Non-Specialist HPs

Participants described the emotional impact that can sometimes occur when working with a family affectedby a congenital condition.

Diagnostic Sonographer #1: "I've always got a fear that the family are going to remember me as the lady
who ruined their pregnancy... Especially for newly qualified sonographers, the 20-week scans can be very
daunting".

Health Visitor #1: "I can get so worried thinking "is this family missing out?" because there's something
they need to know that I don't know... I get quite frustrated and anxious... You also don't want to go to
somebody's house and for it to be obvious that you don't know what you're talking about".

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177 Non-Specialists' Training Needs

178 Experiences of Prior Training

179 The majority of participants reported that they had received no training on congenital craniofacial180 conditions.

181 Midwife #2: "In terms of training, there was absolutely nothing. It all comes down to self-inquiry and how
182 self-driven you are... A lot of the time I'll just be improvising based on something I've read".

183 Children's Nurse #2: "While I was a student the curriculum was focused on conceptual holistic nursing...

184 You might be lucky to learn about individual conditions on placement, but otherwise they don't really 185 feature".

186 Those that had received some training did not feel it had addressed all their questions.

187 Diagnostic Sonographer #1: "One example is the 'Breaking Bad News' training, which tends to be centred 188 around telling parents that their baby has died... It's never usually about breaking news in other 189 circumstances, such as anomalies... There are some skills you can transfer across but [the training] 190 definitely doesn't cover all aspects".

Fetal Medicine Consultant #2: "What's interesting about craniofacial conditions is that sometimes they can be isolated, and sometimes they can be part of an underlying genetic abnormality... The level of complexity can vary considerably, so we don't necessarily know the significance of the diagnosis until after the birth, which makes delivering balanced information all the more difficult... I haven't come across any training that addresses the nuances of that".

196 Information Needs

All participants expressed a desire for further training in the area of congenital craniofacial conditions.
Specifically, participants discussed a need to better understand the patient journey as a whole, in order to
feel more confident during consultations.

Fetal Medicine Consultant #1: "Anatomically and genetically I know what the condition is, but I'd like to be more confident in knowing what the surgery will involve, the treatment pathway...what comes next for the family".

203 Children's Nurse #2: "I see families around the time of surgical admission, but that's six months down the 204 line already... I'd like to know more about what happens in that first six months...the screening and the 205 preparation for surgery...so I can understand the journey [the family] has been on before they get to me".

Participants also wanted to understand the differences between usual care guidelines and recommendationsfor infants with craniofacial conditions.

Health Visitor #1: "There are things outside the normal guidelines that I don't know... For example, cleft lip is going to have a huge impact on the weaning process...and it's also done earlier because the baby needs to be prepared for surgery... My nightmare would be to walk in and give a family our standard advice, only to find out that it's completely wrong".

Participants expressed a need for greater awareness of the potential social and emotional impacts on thefamily.

Health Visitor #4: "I understand what the conditions are, but it's also about what the diagnosis will mean for the parents... How do you assess how they're coping with their baby's upcoming surgery?... How do you make sure they can handle other people's reactions if they go out [in public]? What's the best way to check on the mental health of the mums and dads and check how their relationship is doing?".

Participants also commented on needing some support to address the challenges unique to having a childborn with a facial difference.

Children's Nurse #1: "One of the main challenges for me is when parents see their child after surgery and
suddenly their child looks different... I'm well versed in reassuring parents about the operation, any side
effects, recovery times, etc., but actually preparing them for the appearance change is quite a unique
thing".

Finally, participants discussed the importance of having written patient information and other resources available, in order to bridge any gaps between referrals and to prevent families accessing unreliable information via the internet.

Diagnostic Sonographer #1: "At the moment we've got nothing... It would be fantastic to have a leaflet or
something to give the parents, so they didn't go home waiting for their next appointment and wondering
what this was... Some families don't understand very much English, so there's also a need for information
to be translated".

Health Visitor #3: "I recently found out about the Cleft Lip and Palate Association website and Facebook
page, which I think could be great resources for parents and would potentially stop them from using 'Doctor
Google'".

234 Training Preferences

When asked about the ideal training format, participants felt that face-to-face contact would be preferable,but also acknowledged the difficulties of delivering this.

237 Health Visitor #4: "You'd get the best buy-in from in-person sessions...running workshops for health

238 professionals or coming to staff meetings...but of course that raises questions regarding people's time and

239 hospital resources... Another option would be delivering a lecture to students while they're still training,

240 *although again it might be difficult to get it into the curriculum*".

241 Participants therefore recommended that online resources would provide a helpful starting point.

242 Midwife #3: "In the absence of a study day, or in the case of focusing on specific conditions, I think online

243 resources would be really good... Something you could look at as and when a case arises".

244 Yet, participants reported that online content would need to be relatively brief, citing a need to capture

students' attention, and acknowledging that health professionals often have to study in their spare time.

246 Children's Nurse #1: "I think it's got to be bite-sized... It might be videos, tutorials...but it would have to

247 *be four to five minutes maximum on each topic area*".

Irrespective of the delivery format, all participants felt that hearing from affected families as part of trainingwould be essential.

Children's Nurse #2: "Getting feedback from the families would be immensely beneficial... What were the
things that helped them? What could we have done better? What language should we be using?"

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253 **Discussion**

The aim of this study was to investigate the provision of care for families affected by craniofacial conditions from the perspective of non-specialist health professionals, with a view to informing the development of educational materials. The findings provide important insight into the challenges faced by non-specialists, as well as a range of information and training needs which could improve non-specialists' knowledge and confidence, and the patients' experience. Participants also provided guidance regarding the preferred content and format of educational materials.

260 Synthesis of Findings and Recommendations

261 Previous research has demonstrated parental dissatisfaction with the service provided by non-specialist health professionals, such as sonographers, midwives, and health visitors, in the context of congenital 262 craniofacial conditions. This has predominantly included a perceived lack of knowledge and empathy, and 263 264 has been reported to impact considerably on medical decision-making and long-term parental wellbeing (Lindberg & Berglund, 2014; Stock & Rumsey, 2015; Tierney et al., 2015; Searle et al., 2016; Searle et al., 265 266 2018; Costa et al., 2019; Stock et al., 2019a). The current study investigated these findings from a novel 267 perspective and identified a number of barriers faced by non-specialist health professionals. First, non-268 specialists are unlikely to have received training on the long-term implications of craniofacial conditions 269 or the typical treatment pathway, which may affect their ability to accurately portray the significance of the 270 diagnosis to parents. Existing training on how to 'deliver bad news' may not comprehensively cover the 271 skills needed to discuss the detection of an anomaly and the options that are subsequently available to 272 parents. In addition, non-specialists may not have access to guidance on how to deliver a diagnosis when the aetiology is complex and the prognosis is uncertain. Expectant parents may be unaware that the purpose 273

of the 18-21-week antenatal scan is to screen for anomalies, which may add to the shock experienced if an 274 anomaly is detected. Participants acknowledged that they may lack the skills required to judge parental 275 need and provide appropriate counselling in the moment. Further, non-specialists may be under pressure 276 to keep to time, and may be juggling competing demands, including ensuring they have satisfied the 277 requirements of the full scan or postnatal assessment. Hospital protocols and resources may also play a 278 279 significant role in the diagnostic experience. For example, the timing of assessments and the geographical location of the hospital may impact on the availability of senior staff who are able to provide a second 280 281 opinion and may result in a delay in referral. Some participants commented that their hospital lacked a 282 separate, private room, conducive to supporting distressed parents, where the diagnosis could be discussed in more detail. Midwives and health visitors discussed the challenge of not knowing when and how to 283 deviate from the usual care guidelines, for example, in the case of feeding and weaning infants. Participants 284 285 also lacked understanding of the social and emotional impacts common to affected families, and how to address the unique challenges posed by a congenital craniofacial condition, such as the child having a 286 287 visible facial difference and undergoing appearance-altering surgery. Finally, participants described discrepancies between and within different hospitals in the approaches used to diagnose and treat affected 288 289 families, resulting in variations in national care delivery.

290 While prior literature has suggested the need for training for non-specialist health professionals (Searle et al., 2016; Costa et al., 2019; Stock et al., 2019b; Stock et al., 2019c), the current study is the first to examine 291 the preferred content that such educational materials might include (see Table 1 for a summary). The 292 293 provision of such guidance may also alert staff to the hospital resources that are required and reduce overall variations in the delivery of care over time. Further, access to educational materials may help to increase 294 295 non-specialists' confidence and reduce the emotional impact described by some participants, which had 296 resulted from a lack of knowledge and uncertainty surrounding the best approach to care. The present study has also highlighted a preference among non-specialists for in-person training sessions, delivered to both 297 298 students and qualified professionals. Where in-person sessions are less feasible, or if content needs to be 299 condition-specific, then brief, complementary online training resources were requested. Participants also requested having access to written materials which they could give to parents in order to bridge any gaps 300

between referrals and to prevent families accessing unreliable information via the internet. This echoes 301 302 previous research, which has demonstrated the importance of written resources for families following a diagnosis, during postnatal care, and in preparation for medical treatment (Knapke et al., 2010; McCorkell 303 et al., 2012; Searle et al., 2016). Resources produced by various charitable organisations, such as the 304 305 American Cleft Palate-Craniofacial Association (US), the Cleft Lip and Palate Association (UK), and the Antenatal Results and Choices group (UK) could be ideal, but local hospitals do not always seem to be 306 aware of these resources. One way of overcoming this challenge could be increased contact between local 307 hospitals and specialist craniofacial teams. Participants felt that both parties could benefit from an increase 308 309 in joint working, through the sharing of knowledge and resources, and by conducting combined visits with families where indicated. Such an approach may also help to improve the continuity of care and avoid the 310 potential for conflicting advice to be given to families (Tierney et al., 2015; Searle et al., 2016; Costa et al., 311 2019; Stock et al., 2019c). 312

313 Methodological Considerations

When analysed as a whole group, this study meets the sample size criteria recommended for this type of 314 315 qualitative research (Braun & Clarke, 2006). However, participation from each individual discipline was 316 small, and cannot be deemed to be representative of non-specialist health professionals as a whole. 317 Nonetheless, commonality in the themes reported across disciplines was observed, and consensus on the preferred content and format of educational resources was reached. In order to ensure the relevance of 318 319 resources for all non-specialist health professionals, the future development of educational materials should involve close collaboration with non-specialists, in addition to comprehensive evaluation of any resources 320 321 that are produced.

322

323 Conclusions

This study investigated the provision of care for families affected by craniofacial conditions from the perspective of non-specialist health professionals, with a view to informing the development of educational materials. The findings demonstrate a high degree of concordance between the experiences of non327 specialist health professionals, and previously published reports provided by parents and specialist 328 craniofacial teams. Current training for non-specialist health professionals in the area of congenital 329 craniofacial conditions appears to be insufficient, and opportunities for the development of further resources 330 are therefore suggested.

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