

1 **Women's Experiences of a pregnancy whilst attending a Specialist Antenatal Service for**  
2 **Pregnancies After Stillbirth or Neonatal Death: A Qualitative Interview Study.**

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## 21 **Background**

22 [Pregnancy following a prior stillbirth or neonatal death is associated with a series of emotional](#)  
23 [and psychological challenges for women and their families; these pregnancies are](#)  
24 [characterised by increased anxiety, depression, perceived stress and decreased confidence](#)  
25 [that the pregnancy will have a healthy outcome \[1-3\].](#) Likewise, many mothers and fathers  
26 report the loss of 'normal' positive feelings that they expected, such as joy [2].

27 [Qualitative studies of women's experiences of subsequent pregnancies after a stillbirth or](#)  
28 [neonatal death highlight the value placed on regular interaction with health professionals \[4,](#)  
29 [5\] and social support \[2\].](#) This has led to the suggestion that specialist antenatal support might  
30 reduce anxiety, improve experiences of pregnancy, support relationships and positively  
31 impact on future parenthood [6]. Dedicated "pregnancy after loss" services have developed,  
32 although evaluation of such services is rare. [An interview study of 10 women attending such](#)  
33 [a specialist pregnancy after loss clinic in a tertiary maternity unit in Australia made](#)  
34 [recommendations for future studies](#) including the need for larger, representative samples [7].  
35 Furthermore, the urgent need for evaluations of specialist services for pregnancy after loss  
36 was suggested by 73% of respondents (n=79) when being asked to prioritise pregnancy after  
37 loss research [8]. Women's experiences of a stillbirth have informed care [9, 10], however a  
38 study is yet to be conducted in the UK to explore women's experiences of pregnancy whilst  
39 attending a specialist antenatal clinic in a subsequent pregnancy following loss.

40 [A specialist pregnancy after loss service \(the Rainbow Clinic\) was established in 2014 at a](#)  
41 [tertiary maternity unit in Saint Mary's Hospital in Manchester, UK. In 2016, this model of care](#)  
42 [was expanded to Wythenshawe Hospital, Manchester, UK.](#) The model of care provided by the  
43 clinic has been described in detail elsewhere [11], but focuses on continuity of care provided

44 by an experienced multidisciplinary team with access to specialist perinatal bereavement  
45 counselling. Care follows the international consensus statement for care in pregnancies after  
46 stillbirth [12] and is individualised based upon prior history of loss, maternal medical disorders  
47 and findings on ultrasound scans performed throughout the pregnancy. The current study  
48 aimed to explore women's experiences of pregnancy whilst attending this specialist antenatal  
49 service for pregnancy after loss.

## 50 **Methods**

51 Following ethical approval (Ref 16/NW/0258) the study was conducted between 22/09/2016  
52 and 21/12/2018 at Saint Mary's Hospital and Wythenshawe Hospital, Manchester, UK.  
53 Pregnant women were eligible for inclusion if they were attending the specialist antenatal  
54 service for care in a pregnancy after a stillbirth or neonatal death. Women were excluded if  
55 they were less than 16 years of age, lacked capacity to consent, had been diagnosed with  
56 pregnancy complications, or were receiving treatment for an acute mental health issue in this  
57 pregnancy. Prior to participation women received information about the study from leaflets  
58 and verbally from clinic staff, all participants gave written informed consent prior to  
59 participation.

### 60 *Semi-structured interviews and qualitative analysis*

61 Semi-structured interviews were conducted with a sub-group of women who volunteered to  
62 take part in an interview after being recruited to a larger quantitative study [3]. An interview  
63 topic guide designed by the research team, with input from a patient panel, guided the  
64 interviews through four sections: (i) history leading to care pathway, (ii) the experience of  
65 coping with new pregnancy after loss, (iii) support received in pregnancy, and (iv) advice for  
66 others. Interviews were undertaken in person or by telephone depending on participant

67 preference. They were digitally audio-recorded and transcribed verbatim. Pseudonyms  
68 protected participants' identity.

69 The focus of the analysis was on the participant's experience of health care in the current  
70 pregnancy. The six-stages of thematic analysis (Braun & Clarke, 2006) were used as a template  
71 to identify semantic level themes [13]. The initial stages of analysis (1-4) were conducted by  
72 one author (DS), and a psychologist with expertise of research methodologies but no personal  
73 experience of stillbirth. Two further authors with clinical experience of stillbirth (AH, a  
74 consultant Obstetrician; ST, a research midwife) were introduced at stages 5/6 to allow for  
75 theme discussion and contextualisation.

76

## 77 **Results**

78 Twenty women were interviewed between 23 and 35 weeks' gestation; the mean interview  
79 length was 38 minutes. Of these 20 women, 13 reported one previous stillbirth, three  
80 reported two stillbirths, three reported one neonatal death and one reported both a neonatal  
81 death and stillbirth. The number of children that women had given birth to ranged from one  
82 to eight. Demographic characteristics of the participants are summarised in Table 1.

83 One theme with two subthemes was identified to encapsulate the women's experiences of  
84 their current pregnancy following previous loss(es). Awareness of risk in pregnancy due to  
85 their experience of pregnancy loss was central to all the women's current maternity  
86 experiences. Critically, this increased awareness was not shared by other people (sub-theme  
87 1; *Awareness of risk: 'It's just such a quiet and unspoken subject'*) and had a negative impact  
88 on their psychological experience of pregnancy (sub-theme 2; *Awareness of risk: 'Expect the*

89 *worst, hope for the best*'). A number of expressed emotions were evident in the interviews  
90 and are underlined for emphasis.

91 *Sub-theme 1. Awareness of risk: 'It's just such a quiet, unspoken subject' (Alice)*

92 The women's previous loss(es) heightened their awareness of risk and altered their pregnancy  
93 experience as they felt more alone and anxious. Women reflected that the death of a baby is  
94 not acknowledged and discussed in society; this contributed to their previous low awareness  
95 of the risk of stillbirth (before the death of their baby) and current feelings of isolation. The  
96 shock felt following their loss(es) carried through into their current pregnancy and the women  
97 talked about the ways they protected themselves to feel less isolated in a society that did not  
98 openly recognise stillbirth. A number of women described that attending the specialist clinic  
99 during their pregnancy was reassuring as it offered a protected environment where baby loss  
100 was acknowledged and discussed, which helped them to feel less alone. Being in this  
101 protective environment during their antenatal care meant women felt less anxiety and as it  
102 was a '*...security blanket...*' (Cassie).

103 *'...having lost, I know how real that possibility is...'* (Lauren)

104 *'It feels like we're protected and we've realised that we are different, but it's like our*  
105 *own personal space...'* (Chloe).

106 Women's reported several benefits of a specialized antenatal service on their experience of  
107 pregnancy. Firstly, continuity of care and building relationships with health professionals who  
108 acknowledged their previous loss meant they did not have to repeat their pregnancy story at  
109 each appointment, and the negative emotions associated with talking through the details

110 with different health professionals did not develop. Feeling familiar within these relationships  
111 reduced feelings of stress.

112 *'Once you've mentioned it once, then that should be kind of it unless you want to bring*  
113 *it up or unless that have to, but when it's something that keeps having to be asked, it's*  
114 *not ideal'* (Ania)

115 *'Fantastic [Rainbow Clinic], coz you see the same people all the time, they already*  
116 *know my history'* (Natalie).

117 Secondly, they felt they could trust the staff who made the time for them to express their  
118 concerns, and they were reassured that the Rainbow Clinic staff were *'...experts in the field...'*  
119 (Julia) of baby loss, who could provide personal care to them; this interaction provided  
120 ongoing reassurance for women making them feel heard and not alone.

121 *'...I do enjoy coming as well to this clinic [Rainbow]. Up here, you feel like a person rather*  
122 *than just a number...so I kind of save everything I want to talk about for when I come to*  
123 *the Rainbow clinic'* (Natalia)

124 *'...I never feel like its [Rainbow clinic] rushed'* Cassie.

125 Thirdly, women wanted to avoid pregnant women without experience of loss as they knew  
126 their awareness would be low; they wanted to avoid exposing them to the reality of loss and  
127 did not want to feel the guilt associated with increasing their awareness of risk. Attending the  
128 specialist clinic, women felt they were not alone as they knew the other women there were  
129 in the same situation as them. This induced a *'...sense of validation...'* (Jessie) as their situation  
130 was recognised. However, the awareness that other women had also experienced loss felt  
131 daunting to some women.

132 *'...I had a thing about pregnant people...just meeting the normal ones coz they're*  
133 *always like oh I've got ages left, and you just think how lucky you are, you're pregnant*  
134 *you know. So if I did see people who have had losses its different coz I know they're*  
135 *so appreciative that they're pregnant.'* (Natalie)

136 *"I just burst into tears because I knew they were there because they'd had a similar*  
137 *experience to me and it was just so sad to me...'* (Hazel).

138 Finally, women felt it was their responsibility to protect others including friends, family, their  
139 partner and their baby, from the *'ripple effect...'* (Geordie Mama) of the negative emotions  
140 (e.g., anxiety, worry) that were associated with increased awareness of risk. To protect close  
141 friends and family, some women delayed telling them about their pregnancy as they feared  
142 how they would cope. Women expressed concern for their partners as they had little or no  
143 support outside of their relationship. Some women wanted to protect their feelings about the  
144 child they lost as they did not want people to think that their current baby would replace  
145 them, this led to feelings of guilt.

146 *'But the problem was that nobody was there for him [partner], coz he had to be there*  
147 *for me...'* (Issy).

148 *'...people who've not been through my experience kinda think they are just a*  
149 *replacement and they're not... it's always important not to forget them'* (Michelle).

150 *Sub-theme 2: Awareness of risk: 'Expect the worst, hope for the best'* (Alice)

151 As stated above, women were more aware of the risks **and loss** due to their previous  
152 experiences. As such, they entered their pregnancies with trepidation. This led to *'a*  
153 *rollercoaster'* (Cassie) of heightened anxiety and fear at certain points in pregnancy including

154 the period immediately before scans or appointments, and at the end of the pregnancy.  
155 Women spoke of their desire to stop feeling fear and anger, and instead wished to focus on  
156 the positive aspects of pregnancy particularly their hopes for a healthy baby. The Rainbow  
157 clinic had a central role in this experience, as outlined above, because it made them feel less  
158 alone and supported which increased their feelings of hope.

159 *'I feel bad about it because like I'm so grateful to be in this position, but yeah I feel so*  
160 *bad because I'm so scared and so worried and upset'* (Lauren)

161 *'I want to move on and move forward'* (Geordie Mamma).

162 Women also felt they had little control over their previous loss(es) so they attempted to exert  
163 control over their current pregnancy, particularly their emotions and behaviours. A few  
164 women outlined that they controlled their psychological and physical attachment to their  
165 baby by not giving the baby a name or buying any items for their baby. Several also delayed  
166 telling others about the pregnancy to prevent them from the sadness they may feel.

167 *'I can't let myself get excited about it because you know, I don't know you almost*  
168 *become disassociated with it because I think because you don't really want to let*  
169 *yourself get too excited about it'* (Michelle).

170 Likewise, the increased number of appointments and scans at Rainbow Clinic meant women  
171 felt increasingly reassured and hopeful, and more in control of their pregnancy, which  
172 reduced their anxiety . Women valued the increased frequency of the appointments and the  
173 flexibility to arrange additional appointments as it gave them some ownership over their care,  
174 and they felt more relaxed and less anxious following these appointments.

175 *'It feels like with the Rainbow Clinic, the anxiety is cut out before it even has a chance*  
176 *to exist. It's just more personalised care...'* (Hope)

177 *'Coming into the Rainbow Clinic, all the reassurance that you do get has been fabulous.*  
178 *Knowing that if I need extra scans, if I need to speak to somebody, all I have to do is*  
179 *ring up and they'll make an appointment for me to come in'* (Julia).

180 Women expressed feeling mixed feelings in pregnancy due to the increased awareness of risk  
181 and many reported suppressing feelings of excitement. Women wanted to feel hope and to  
182 enjoy the pregnancy, however, these positive emotions were constantly challenged by  
183 increased awareness of risk which was accompanied by negative feelings such as worry. As  
184 their pregnancies progressed, some women felt more anxiety as they reached the gestation  
185 of their previous loss(es) with one comparing this feeling to *'..walking a tightrope everyday..'*  
186 *(Judith)*. However, some felt more confident and hopeful as time progressed. Feeling fetal  
187 movements for many women increased feelings of hope and the absence of movement made  
188 them more anxious, particularly during the early stages of the pregnancy. *Knowing that the*  
189 *expert staff at the Rainbow clinic were available for reassurance at any point was vital to the*  
190 *women.*

191 *'...the first part you are anxious but...you don't know what's happening inside*  
192 *you...rely on the baby's movements...'* (Sophia)

193 *'he's [partner] warming up now but he's always waiting for something to go wrong'*  
194 (Julia)

195 *'You have to enjoy it, you can't think that its gonna happen again because otherwise*  
196 *what's the point?'* (Ania).

197 These data highlight how women recall their experience of attending a specialist antenatal  
198 clinic following a previous stillbirth or neonatal death.

## 199 **Discussion**

200 This study explores women's experiences of pregnancy after loss while attending a specialist  
201 antenatal clinic in the UK. Using a thematic analysis approach, one theme of 'awareness of  
202 risk' and two subthemes were developed to summarise these experiences: 'Awareness of risk:  
203 It's just such a quiet and unspoken subject' and 'Awareness of risk: Expect the worst, hope for  
204 the best'. This study highlights key emotions experienced by women and that specialist care  
205 was perceived positively.

## 206 *Strengths and Limitations*

207 This exploratory study gives us insight into the role of specialist antenatal clinics at two  
208 hospitals following a previous stillbirth or neonatal death. The sample was representative of  
209 women using the clinical service and participants in a larger quantitative study of service users  
210 [3]. However, this study did not employ a comparative design so conclusions cannot be drawn  
211 about whether this model of care achieves better outcomes with regard to experience of  
212 antenatal care than standard consultant-led care or whether experiences of women differ  
213 based on their history (e.g., number of previous stillbirths, gestation at stillbirth). The study  
214 initially aimed to interview women twice with an additional interview after birth. However,  
215 due to resource constraints we were not able to follow all participants up and collect data in  
216 the immediate postnatal period. Thus, the data was not included here as no clear postnatal  
217 conclusions or recommendations would have been possible. Future work should include a  
218 greater focus on the intrapartum and postnatal experiences of women attending specialist  
219 antenatal clinics, and the study design must include a clear plan with adequate resources to

220 recruit these women as previous studies have found recruitment and follow-up to be low  
221 following birth [15].

### 222 *Contextualising the findings*

223 The best available clinical evidence suggests that pregnancy after loss requires additional  
224 antenatal care to identify recurrent or related medical conditions to help parents navigate the  
225 increased risk of biomedical and psychological morbidity [2]. However, there are few studies  
226 that evaluate the impact of specialist antenatal services on mother's experiences [12].  
227 Furthermore, a Cochrane review was unable to find any randomised controlled trials  
228 evaluating psychological or support interventions in pregnancies after loss [14]. The need for  
229 further research into care in pregnancies after a stillbirth or neonatal death was identified by  
230 over 1,000 parents and professionals and was included in UK stillbirth research priorities [15].  
231 Thus, evaluating the impact of specialist antenatal services for pregnancy after loss to  
232 determine optimal care is a cogent need.

233 The findings presented here provide insight into the experiences of women attending a  
234 specialist antenatal service following a previous stillbirth or neonatal death. Whilst this study  
235 was carried out in the North-West of the UK, our findings support other research conducted  
236 in Australia [7] indicating the likely transferability of some of the recommendations for  
237 specialist care in pregnancy after loss. In both this study and Meredith et al's study [7], women  
238 describe the mixture of emotions felt in their pregnancy including the guilt of having another  
239 child, while not wanting to forget their stillborn baby. In both studies, women viewed the  
240 specialist service positively as it gave security, understanding and reassurance thus regulating  
241 their emotional responses. However, Meredith et al. also noted the important effects on the  
242 wider family unit which were not assessed here [7]. Given that (male) partners experience

243 different challenges after a baby dies [16, 17], further research is needed to investigate  
244 whether a specialist antenatal service for pregnancy after loss improves partner's and other  
245 family member's experience of subsequent pregnancies as well as the having a positive  
246 impact on the parental relationship . Likewise, more work is needed to understand the  
247 emotional and psychological experiences of both parents following birth of a live baby.  
248 Critically, the impacts of the experience of loss on parenthood and mother-child attachment  
249 are not well understood, although disorganized attachment has been described [18]. Thus,  
250 moving forwards it is important to build an integrated view regarding the short, medium and  
251 longer-term impact of specialist services for pregnancy loss can have on mothers, their  
252 partners and their wider family.

253 The findings of women described here can be used to guide the implementation of perinatal  
254 mental health services in the UK and elsewhere. The National Health Service Long Term plan  
255 states it will improve access to and the quality of perinatal mental health care for mothers,  
256 their partners and children by increasing access to evidence based care provided by specialist  
257 teams, including access to psychological services [19]. Perinatal loss is recognised as a specific  
258 area in need of psychological support. Key components of care within this area the principles  
259 of sensitive, respectful communication, continuity of carer, involvement of other family  
260 members and the need for dedicated professionals with sufficient time to provide care. The  
261 findings described in qualitative studies to date suggest that these same principles are  
262 relevant to pregnancy after loss [20].

## 263 **Conclusions**

264 This study provides insight into women's experiences of pregnancy whilst attending a  
265 specialist antenatal service for pregnancies after a stillbirth or neonatal death. As previously

266 described, provision of specialist care in a dedicated clinical service was viewed favourably as  
267 it helped to control women's anxiety, which was increased due to their awareness of risk.  
268 Further studies including comparative studies are required to determine which components  
269 of the dedicated service are valued and [would benefit from being](#) introduced more widely  
270 into care. [Therefore, optimal evidence-based care for women experiencing pregnancy after](#)  
271 [loss needs to be implemented to address the wide variation in the quality of care women](#)  
272 [currently receive \[21\]](#). Further studies need to understand partners' and other family  
273 member's experiences of pregnancy/ies after stillbirth to appreciate which aspects of care  
274 and support are beneficial to them in a future pregnancy. Likewise, specialist postnatal  
275 support for women after previous loss needs consideration.

276

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333 **Table 1** - Demographic characteristics of the participants.

334

<b>Demographic characteristic</b>	<b>Median (range) for continuous data N (%) for categorical data</b>
Maternal age (years)	36 (26-41)
Ethnicity	
<i>Black African</i>	1 (5)
<i>Indian</i>	1 (5)
<i>White British</i>	14 (70)
<i>Other White Ethnicity (Irish/European)</i>	1 (5)
<i>Ethnicity not recorded</i>	3 (15)
Marital status	
<i>Single</i>	6 (30)
<i>Married / Cohabiting</i>	11 (55)
<i>Status not recorded</i>	3 (15)
Employment status	
<i>Employed</i>	13 (65)
<i>Not in paid employment</i>	3 (15)
<i>Home maker</i>	1 (5)
<i>Not recorded</i>	3 (15)