

## “Labelled High-Risk”

Exploring perception of risk during childbirth in  
women with a BMI > 35 kg/m<sup>2</sup>

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A thesis submitted in partial fulfilment of the  
requirements of Edinburgh Napier University, for the  
award of Doctor of Philosophy

Appendices

July 2019

## Appendices

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Royal College of  
Obstetricians and  
Gynaecologists

Setting standards to improve women's health

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## CMACE/RCOG JOINT GUIDELINE MANAGEMENT OF WOMEN WITH OBESITY IN PREGNANCY

1.

### 1. Provision of antenatal care

1.1. *How should antenatal care be provided for women with obesity?*

**Management of women with obesity in pregnancy should be integrated into all antenatal clinics, with clear policies and guidelines for care available.**

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The prevalence of obesity in pregnancy has increased significantly since the early 1990s,<sup>4,5</sup> and this is expected to continue in parallel with increasing prevalence in the general population. Specialist clinics are unlikely to be feasible in areas of high prevalence due to resource issues, and it is important that all health professionals providing maternity care are aware of the maternal and fetal risks and the specific interventions required to minimise these risks.

#### 1.1 Information-giving during pregnancy

1.1.1. **What information should be provided to women with maternal obesity?**

**All pregnant women with a booking BMI  $\geq 30$  should be provided with accurate and accessible information about the risks associated with obesity in pregnancy and how they may be minimised. Women should be given the opportunity to discuss this information.**

While pre-conception advice and care is the ideal scenario for women with obesity, those women presenting for the first time during pregnancy should be given an early opportunity to discuss potential risks and management options with a healthcare professional. The aim is to provide appropriate information sensitively, which empowers the woman to actively engage with health professionals and the services available to her. Relevant information will include the increased risk of pre-eclampsia, gestational diabetes and fetal macrosomia requiring an increased level of maternal and fetal monitoring; the potential for poor ultrasound visualisation of the baby and consequent difficulties in fetal surveillance and screening for anomalies; the potential for difficulty with intrapartum fetal monitoring, anaesthesia and caesarean section which would require senior obstetric and anaesthetic involvement and an antenatal anaesthetic assessment; and the need to prioritise the safety of the mother at all times. Women should be made aware of the importance of healthy eating and appropriate exercise during pregnancy in order to prevent excessive weight gain and gestational diabetes. Dietetic advice by an appropriately trained professional should be provided early in the pregnancy.

### 6. Care during childbirth

6.1. **Where should women with obesity give birth?**

Women with a BMI  $\geq 35$  should give birth in a consultant-led obstetric unit with appropriate neonatal services, as recommended by the NICE Clinical Guideline No. 55 (Intrapartum Care, Sept 2007).<sup>56</sup>

Women with obesity are at significantly higher risk of shoulder dystocia<sup>15,20</sup> and postpartum haemorrhage<sup>10,20</sup> and immediate obstetric intervention is vital in these situations. In addition, babies born to mothers with obesity are up to 1.5 times more likely to be admitted to a neonatal intensive care unit than babies born to mothers with a healthy weight.<sup>10,20,46</sup> The odds of admission have been shown to increase with each increasing BMI category, similar to those defined by WHO.<sup>23</sup> Please see the table in Appendix 3 for the specific risks associated with maternal obesity.

The NICE Clinical Guideline No. 55 recommends that women with BMI  $\geq 35$  should be advised to give birth in an obstetric unit to reduce the increased risk of maternal and fetal adverse outcomes. It recommends an individual risk assessment regarding planned place of birth for women with a booking BMI of 30 – 34.

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### 4.0 RECOMMENDATIONS FOR ANTENATAL CARE

#### 4.1 WOMEN WITH A BMI $\geq$ 35 KG/M<sup>2</sup>

- Booking appointment
- Document height weight and BMI.
- Folic acid 5mg
- Referral for consideration of consultant led care
- Document full plan of care in special features in TRAK or in hand-held records.
- Give anaesthetic information leaflet and put BMI >35 in TRAK and place a sticker and the patient's hand held notes
- Advise weight maintenance and not weight loss during pregnancy. Refer to dietician, exercise classes and support groups where appropriate (APPENDIX 2).
- Inform women of the increased risk of complications associated with maternal obesity including pre- eclampsia, gestational diabetes and Intra-partum complications.
- TED stockings and thromboprophylaxis with Dalteparin throughout any period of immobilization or inpatient stay should be considered in accordance with the RCOG Clinical Green Top Guideline no.37. (See Appendix 3 for doses). Knee length stockings (class 2) are suitable for most women. However, thigh length (class 1) should be used in women in whom there are contraindications to low molecular weight heparin. TEDS may need to be ordered at this point
- Measure blood pressure with appropriate sized cuff.
- Weigh and calculate BMI again in 3rd trimester to allow planning for any special equipment required at delivery
- Perform USS to assess fetal presentation if doubt at Term.

### 5. RECOMMENDATIONS FOR INTRAPARTUM CARE

#### 5.1 WOMEN WITH ABMI $\geq$ 35 KG/M<sup>2</sup>

- The obstetric senior registrar (ST 6/7 RIE; Registrar SJH) and anaesthetist should be Informed of admission. Consultant Input should be sought at the discretion of the senior registrar.
- Admission CTG and continuous external fetal monitoring are recommended, and fetal scalp electrode may be required.
- Labour and delivery of primiparous women should be managed on labour ward.
- The use of the pool is not recommended.
- In labour, women should be nil by mouth and have regular oral ranitidine 150mg six hourly.
- Venous access should be established in early labour
- Consider the wearing of graduated compression stockings during labour and throughout any Induction process.
- Aim to induce labour on weekdays and avoid the weekends.
- Caesarean Section should be performed by a senior obstetrician with experienced assistant.
- Thorough skin preparation with iodine based prep is recommended, ideally before the spinal is sited and repeated immediately pre-operatively to reduce wound infection.
- Skin incision should be either low transverse skin incision (ideally under the pannus) is suggested (4) or supraumbilical. It should be remembered that obesity may distort normal anatomical landmarks and care should be taken not to buttonhole the pannus.

- Consider looped PDS for closure of the rectus sheath. Consider suturing the subcutaneous tissue space in women with more than 2cm of subcutaneous fat. Interrupted non absorbable sutures (e.g. ethibond) and staples for skin closure should be considered.
- Active management of the third stage is recommended, and prophylactic oxytocin infusion (40IU in 500ml normal saline, at 125ml/hr) should be started in the presence of a risk factor for postpartum haemorrhage (e.g. macrosomia, caesarean delivery, prolonged labour).

### Appendix 3 Search History

#	Query	Limiters/Expanders	Last Run Via	Results
S3	( (MM "Pregnancy, High-Risk") OR (MH "Risk+") OR (MH "Risk Assessment+/CL") OR "high risk pregnancy" OR (MH "Pregnancy Complications+/CL/DG/PX/NU") OR "complications" OR (MH "Obesity+/CO/NU/DI") ) AND ( child birth or maternity or pregnancy ) AND (risk perception OR perceived risk*)	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL Plus with Full Text;MEDLINE;Psychology and Behavioral Sciences Collection;PsycINFO	644
S2	( (MM "Pregnancy, High-Risk") OR (MH "Risk+") OR (MH "Risk Assessment+/CL") OR "high risk pregnancy" OR (MH "Pregnancy Complications+/CL/DG/PX/NU") OR "complications" OR (MH "Obesity+/CO/NU/DI") ) AND (risk perception or perceived risk*)	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL Plus with Full Text;MEDLINE;Psychology and Behavioral Sciences Collection;PsycINFO	7,806
S1	(MM "Pregnancy, High-Risk") OR (MH "Risk+") OR (MH "Risk Assessment+/CL") OR "high risk pregnancy" OR (MH "Pregnancy Complications+/CL/DG/PX/NU") OR "complications" OR (MH "Obesity+/CO/NU/DI")	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL Plus with Full Text;MEDLINE;Psychology and Behavioral Sciences Collection;PsycINFO	3,957,688

Appendix 4a.

<b>1. Full reference</b>	Shub, A, Y-S Huning, Campbell, K and McCarthy (2013) Pregnancy women's knowledge of weight, weight gain, complications of obesity and weight management strategies in pregnancy BMC Research Notes 6:278 pg. 1 – 6.
<b>Population targeted and number of participants</b>	Convenience sample of 354 women
<b>Intervention or area of interest</b>	To assess the level of knowledge of pregnant women regarding 1) their own weight and body mass index (BMI) category, 2) awareness of guidelines for GWG (gestational weight gain) and 3) knowledge of safe weight management strategies in pregnancy. (4) Knowledge of complications associated with GWG and (5) Knowledge of safe weight management strategies in pregnancy
<b>Study method used</b>	Descriptive Survey
<b>Summary of findings</b>	47.8 % of the study population was obese, 74% of obese women underestimated their BMI category, and 64 % of obese women and 40% of overweight women overestimated their recommended GWG. Women's knowledge of the specific risks associated with excess GWG or maternal obesity was poor. Women also reported many incorrect beliefs about safe weight management in pregnancy.
<b>Conclusions</b>	Many pregnant women have poor knowledge about obesity, GWG, their consequences and management strategies. Bridging this knowledge gap is important step towards improving perinatal outcomes for all pregnant women, especially those who enter pregnancy overweight or obese.
<b>Themes from main findings</b>	1. Knowledge of obesity associated risks 2. Health education
<b>Similarities between other studies</b>	Gaudet et al ( 2011),Kominarek, et al ( 2010) , Nikert,Foxcroft et al ( 2011), Okeh et al ( 2015)



<b>2. Full reference</b>	Nitert, M, Foxcroft, K, Lust,Fagermo, N, Lawlor, D, O'Callaghan, M, McIntyre, D and Calloway, L (2011) Overweight and obesity knowledge prior to pregnancy: a survey study BMC Pregnancy and Childbirth 11:96 (Australia)
<b>Population targeted and number of participants</b>	Cross sectional survey of 412 consecutive unselected women in early pregnancy in Brisbane,
<b>Intervention or area of interest</b>	The main outcome measure was knowledge regarding the risks of overweight and obesity in pregnancy.
<b>Study method used</b>	Cross sectional survey
<b>Summary of findings</b>	Over 75% of respondents identified that obese women have an increased risk of overall complications, including gestational diabetes and hypertensive disorders of pregnancy compared to women of normal weight. More than 60% of women asserted that obesity would increase the risk of caesarean section and less than half identified an increased risk of adverse neonatal outcomes. Women were less likely to know about neonatal complications (19.7% did not know about the effect of obesity on these) than maternal complications (7.4%). Knowledge was similar amongst women recruited at the public hospital and those recruited whilst attending for an ultrasound scan at a private clinic. For most areas they were also similar between women of lower and higher BMI, but women with BMI < 25.0 were less likely to know that obesity was associated with increased rate of Caesarean section than those with higher BMI (16.8% versus 4.5%, P < 0.001).
<b>Conclusions</b>	Higher educational status was associated with more knowledge of the risks of overweight and obesity in pregnancy. Many women correctly identify that overweight and obesity increases the overall risk of complications of pregnancy and childbirth. The increased risks of maternal complications associated with being obese are better known than the increased risk of neonatal complications. Maternal education status is a main determinant of the extent of knowledge and this should be considered when designing education campaigns
<b>Themes from findings:</b>	1.Knowledge of obesity related complications – maternal risks 2.Knowledge of neonatal risks 3.Health education
<b>Similarities between other studies</b>	Gaudet et al ( 2011),Kominarek et al( 2010) , Shub et al ( 2013), Okeh et al ( 2015)

<b>3. Full reference</b>	Kominiarek, M, Vonderheid, S and Endres, L (2010) Maternal obesity: do patients understand the risks Journal of Perinatology 30 pg. 452 – 458 (USA)
<b>Population targeted and number of participants</b>	105 women recruited from an antenatal clinic – primarily low-income minority women. 54 % non-obese women and 46% obese women BMI > 30kg/m <sup>2</sup>
<b>Intervention or area of interest</b>	To explore patient knowledge of the risks of maternal obesity and compare knowledge between non obese and obese women
<b>Study method used</b>	Quantitative study face to face survey
<b>Summary of findings</b>	56 non – obese and 47 obese participants. 49% participants knew that obesity increases risks in pregnancy. The knowledge of specific risks was similar in the non – obese (60%) and obese (64%)
<b>Conclusions</b>	Regardless of BMI women required more knowledge about risks of obesity in pregnancy, Recommendations for future research – Little is known about the obese woman’s perception of risk during pregnancy
<b>Themes from main findings</b>	1.Knowledge of obesity related risks
<b>Similarities between other studies</b>	Gaudet et al ( 2011), Nitert et al ( 2011),Shub et al ( 2013), Okeh et al ( 2015)

<b>4.Full reference</b>	Gaudet,I,Gruslin,A,Magee,L ( 2011) Weight in Pregnancy and its implications: What women report JOGC 33(3) pg.227 – 234
<b>Population targeted and number of participants</b>	117 women attending a routine ultrasound clinic between 11 and 24 weeks
<b>Intervention or area of interest</b>	The primary objective in this study was to determine the proportion of a group of pregnant women who were able to correctly classify BMI.Secondary objectives included assessing the direction of BMI misclassification and maternal knowledge of target gestational weight gain and obesity associated pregnancy complications.
<b>Study method used</b>	Cross sectional survey
<b>Summary of findings</b>	Out of 117 respondents 30 were overweight (BMI 25 to 29.9) or obese (BMI >30) Obese or overweight women were significantly more likely to misclassify their BMI. There were no differences between women in the various BMI categories with regard to their awareness of several common related pregnancy complications.

<b>Conclusions</b>	Misclassification of pre pregnancy BMI is common, particularly among women carrying excess weight. Evaluation of pre pregnancy BMI and education regarding appropriate gestational weight gain are logical initial steps for optimizing weight related pregnancy outcomes.
<b>Themes from main findings</b>	1. Knowledge of obesity related risks
<b>Similarities between other studies</b>	Okeh, et al (2015)

<b>5.Full reference</b>	Okeh, O, Hawkins, K, Butler, W and Younis, A (2015) Knowledge and Perception of risks and Complications of Maternal Obesity during Pregnancy <i>Gynecology and Obstetrics</i> 5(9) pg., 1 – 5.
<b>Population targeted and number of participants</b>	Convenience sample of 102 women pregnant and non-pregnant who attended a Women's health clinic for care (prenatal, postpartum, well- woman and follow up visits)
<b>Intervention or area of interest</b>	To assess the knowledge and understanding of the risks of maternal obesity during pregnancy in patients visiting a prenatal Health Clinic at an academic, public medical center located in Macon, Georgia.
<b>Study method used</b>	Face to face survey asking questions about knowledge and perception of Body Mass Index (BMI) and maternal obesity risks were collected. Responses were scored between 0-100percent and categorized to minimal, good and broad knowledge groups.
<b>Summary of findings</b>	Most respondents have moderately good knowledge of maternal obesity risk. However, only 40.2% of women were aware of the term BMI, 48% knew goals of weight gain during pregnancy, and 51% were aware that obesity increases the risk of stillbirth. Obese patients were more aware of the risk for pregnancy complications compared to normal and overweight. But only 29.7% of them correctly identified themselves as obese, 53.1% classify themselves as overweight, 15.6% normal and 1.6% report being underweight. Maternal weight, educational status and daily exercise were consistently associated with good and broad knowledge of maternal risks. Overall, most women have limited knowledge of BMI, goals of weight gain during pregnancy and risks of maternal obesity on them and their unborn child. The perception of most overweight and obese women about their current weight was imprecise.
<b>Conclusions</b>	Our findings underscore the need for healthcare providers to make pregnant women more aware of the increased risks associated with overweight and obesity

<b>Themes from main findings</b>	1.Knowledge of obesity associated risks 2. Health education
<b>Similarities between other studies</b>	Shub et al (2013), Kominiarek et al (2010)

<b>6.Full reference</b>	Brooten, D, Youngblut, J, Gloembeski, S, Magnus, M and Hannan, J (2012) Perceived weight gain, risk, and nutrition in pregnancy in five racial groups Journal of the American Academy of Nurse Practitioners 24 pg. 32 – 42 (USA)
<b>Population targeted and number of participants</b>	54 women < 20 weeks' gestation
<b>Intervention or area of interest</b>	Aim was to examine perceived pregnancy weight gain needed, perceived risks to mother, and infant of excessive weight and underweight, perceptions of actual, ideal, realistic body size, nutritional intake in five racial/ ethnic groups.
<b>Study method used</b>	Questionnaires
<b>Summary of findings</b>	39% of women were obese or overweight. African American women had low perceived risk for mother and infant of gaining too much pregnancy weight, highest perceived risk for both of gaining too little. Caribbean black women perceived highest risk to mother of gaining too much pregnancy weight, highest risk to infant of gaining too little.
<b>Conclusions</b>	Education is need to raise awareness of risks of prepregnancy weight and excessive weight Gain for mother and infant. The need for prenatal nutritional; counseling to reduce the intake of calories, fats and sweets and increase intake of vegetables, fruits and fiber.

<b>7.Full reference</b>	de Jersey, S, Callaway, L and Daniels (2015) Weight related risk perception among healthy and overweight pregnancy women: a cross sectional study
<b>Population targeted and number of participants</b>	664 women participated, 34% were overweight before pregnancy – 23% pre obese and 11% obese
<b>Intervention or area of interest</b>	The objective of this study was to evaluate risk perception in early pregnancy and to compare this perception between women commencing pregnancy healthy and overweight.
<b>Study method used</b>	Cross sectional survey
<b>Summary of findings</b>	Excess gestational weight gain during pregnancy was more important in leading to health problems for women or their child compared with prepregnancy weight. Personal risk perception for complications was low for all women, although overweight women had slightly higher scores than healthy weight women. All women perceived the risk for complications to be below that of the average pregnancy woman.
<b>Conclusions</b>	Women should be informed of the risk associated with their pre – pregnancy weight ( in the case of maternal weight) and (excess gestational weight gain) .If efforts to raise risk awareness are to result in preventative action, this information needs to be accompanied by advice and appropriate support on how to reduce risk
<b>Similarities between other studies</b>	Keely et al (2011)

<b>8. Full reference</b>	Keely, A, Gunning, M and Dennison, F (2011) Maternal Obesity in pregnancy: Women's understanding of risks British Journal of Midwifery (19) 6 pg. 364 – 369 (UK)
<b>Population targeted and number of participants</b>	Eight women BMI > 40kg/m <sup>2</sup> > 34 weeks
<b>Intervention or area of interest</b>	To explore obese women's perceptions of obesity as a risk factor in pregnancy and their experiences of NHS maternity care
<b>Study method used</b>	Open ended, semi structured interviews analyzed using thematic analysis
<b>Summary of findings</b>	Participants were aware of obesity as a risk factor in pregnancy. Some felt that they had significant risks but this awareness developed in the index pregnancy. Some participants felt that the significant risks posed by obesity in pregnancy had not been properly explained to them, both prior to and in early pregnancy. In addition, midwives need guidance in discussing this sensitive issue with women, in order to promote open communication and effective clinical care.
<b>Conclusions</b>	Need for opportunities for health promotion aimed at disseminating information about risks of obesity in pregnancy to overweight and obese women
<b>Themes</b>	1.Perceptions of health ,2.Medical /obstetric problems,3.Risk awareness,4.Risk awareness and the lived experience,5.Experience of the NHS
<b>Similarities and differences between other studies</b>	Kominiarek et al(2010),Brooten et al (2012)

<b>9.Full reference</b>	Heaman, M ,Beaton, J ,Gupton, A and Sloan( 1992) A Comparison of Childbirth Expectations in High risk and Low Risk pregnant Women Clinical Nursing research 1(3) pg.252- 265
<b>Population targeted and number of participants</b>	75 high risk nulliparous and 77 low risk nulliparous
<b>Intervention or area of interest</b>	Comparison of childbirth expectations of high risk and low risk pregnant women and then examining the influence of anxiety, risk status and childbirth preparation on these.
<b>Study method used</b>	Descriptive correlational study
<b>Summary of findings</b>	High risk women had significantly less positive expectations for their childbirth experience than low risk women. High risk women expected more medical intervention and more difficulty coping with pain during labour and birth.
<b>Conclusions</b>	Results indicate that high risk women expect more difficulty in coping with pain during childbirth than low risk women. Therefore techniques for coping with pain and methods of pain relief need to be discussed. High risk women expect more medical intervention during childbirth, hence the nurse requires to explore the types of intervention and clarify any misconceptions. High risk

	women exhibit high levels of state anxiety, because anxiety is directly related to less positive expectations for the childbirth experience, nursing interventions to reduce anxiety are important.
<b>Themes from main findings</b>	1.Predictors of risk perception
<b>Similarities and differences between other studies</b>	Headley and Harrigan (2009)

<b>10.Full reference</b>	White, O, Noleen, K, McCorry, N, Scott-Heyes, G, Dempster, M and Manderson, J (2008) Maternal appraisals of risk, coping and prenatal attachment among women hospitalized with pregnancy complications <i>Journal of Reproductive and Infant Psychology</i> 26(2) pg. 74 – 85.
<b>Population targeted and number of participants</b>	87 women who were hospitalized for pregnancy related complications.
<b>Intervention or area of interest</b>	Women's appraisal of risk may not be congruent with medical assessments of risk. This study sought to model relationships between risk (maternal perceptions and medical ratings) and coping, psychological well-being and maternal fetal attachment.
<b>Study method used</b>	Survey using: Maternal Antenatal Attachment Scale, State –trait Anxiety Inventory. Hospital Anxiety and Depression Scale, Prenatal Distress Questionnaire, Prenatal Coping Inventory, Short Form Social Support Questionnaire Maternal risk Appraisal and Medical Risk Assessment
<b>Summary of findings</b>	Analysis indicated that positive appraisal as a coping strategy mediates the relationship between maternal appraisals of risk and maternal fetal attachment
<b>Conclusions</b>	Awareness of the potential incongruence between patients and health care professionals' perceptions of risk is important within the clinical environment. The potential benefits of promoting positive appraisal in high-risk pregnancy merits further research.
<b>Themes from main findings</b>	1.Maternal appraisal of risk versus Health professionals' appraisal of risk
<b>Similarities and differences between other studies</b>	Heaman et al (1992), Headley and Harrigan (2009)

<b>11. Full reference</b>	Gupton , A, Heaman , M and Cheng, L (2001) Complicated and uncomplicated Pregnancies: Women's Perception of Risk JOGNN Clinical studies 30(2)
<b>Population targeted and number of participants</b>	Convenience sample of 105 women with complicated pregnancies requiring hospitalization and 103 women with no known complications.
<b>Intervention or area of interest</b>	Perception of risk during pregnancy
<b>Study method used</b>	Descriptive correlational study
<b>Summary of findings</b>	Women with complicated pregnancies perceived their overall risk and risk for specific pregnancy outcomes as significantly higher than women with uncomplicated pregnancies State anxiety and biomedical risk were positively related to perception of risk, but there was no relationship between stress, self-esteem, or social support and perception of risk. Strongest predictors of self-perception of risk were the biomedical risk score and state anxiety.
<b>Conclusions</b>	Women with complicated pregnancies perceive risks as higher than women with uncomplicated pregnancies. Both biomedical and psychosocial factors play a role in influencing risk perception. Nursing assessment of the pregnant women should include discussion with her of her perception of risk.
<b>12. Full reference</b>	Headley, A and Harrigan, J (2009) Using the pregnancy perception of risk questionnaire to assess health care literacy gaps in maternal perception of prenatal risk Journal of The National Medical Association 101(10) pg. 1041 – 1045.
<b>Population targeted and number of participants</b>	One hundred and thirty-three women. 30.4% were attending a high risk clinic and 67.4% were attending a routine low risk clinic
<b>Intervention or area of interest</b>	In this study participants were queried about their perception of risk using a visual analogue scale called Pregnancy Perception of Risk Questionnaire. (PPRQ)
<b>Study method used</b>	Survey using the PPRQ
<b>Summary of findings</b>	Patients in the high risk clinic demonstrated higher PPRQ scores, suggesting increased concerns regarding potential pregnancy complications/outcomes. However, correlation between patients PPRQ scores and Medically identified Patient Risk factors (MIFs) was not identified. More work is needed to educate all pregnant women about their MIFs). Lack of awareness by women is unlikely to lead to adherence to medical recommendations for amelioration of risks.
<b>Conclusions</b>	Adaptation of obstetrical health care materials and culturally appropriate counseling may mitigate gaps between MIFs and patient perception



<b>Themes from main findings</b>	1.Measuring risk perception
<b>Similarities and differences between other studies</b>	Heaman et al (1992), White, McCorry et al (2008)
<b>Themes from main findings</b>	1.Factors that influence risk perception 2.Measuring risk perception
<b>13.Full reference ( USA)</b>	Cannella,D,Auerbach,M and Lobel,M ( 2013) Predicting birth outcomes: Together, mother and health care provider know best Journal of Psychosomatic Research 75, pg. 299 – 304
<b>Population targeted and number of participants</b>	165 women at high obstetric risk (n= 34) or low risk (131)
<b>Intervention or area of interest</b>	To examine contributors to perceived risk in pregnancy and it's utility in predicting lower birth weight and earlier delivery in conjunction with health care providers assessment of obstetric risk.
<b>Study method used</b>	Cross sectional study – Questionnaire
<b>Summary of findings</b>	40% of the sample perceived their risk status differently than their health care provider. Stress, poor reproductive history, provider assigned risk, and unhealthy behaviours were significant, independent predictors of perceived risk (R2=.37). The greatest in birth weight (p=.003) and gestational age (p=.05) was between women considered at low risk by both self and provider and women considered at high risk by both. Perceived risk improved prediction of adverse birth outcomes, especially lower birth weight, in women considered by providers to be at low risk.
<b>Conclusions</b>	Women's perceptions of risk are an important contributor to prediction of birth outcomes, but the combination of information from both a woman and her health care provider is superior. Incorporating women's perceptions into obstetric risk determination may help to reduce the number of women identified as high risk who subsequently have normal birth outcome (false positives) and more importantly, the number of women considered to be at low risk who ultimately experience an adverse outcome.

<b>14. Full reference</b>	Gray, B (2006) Hospitalization History and Differences in Self Rated Pregnancy Risk Western Journal of Nursing Research 28(2) pg. 216 – 228
<b>Population targeted and number of participants</b>	207 expectant women who were medically diagnosed as high risk
<b>Intervention or area of interest</b>	High-risk pregnancies affect a significant number of women each year. Limited information exists on how these women appraise risk to their pregnancy. This study-examined women who were medically categorized as high-risk .The study examined the differences in women’s appraisal of risk, based on hospitalization history, and differences amongst risk appraisals made by women and health care professionals
<b>Study method used</b>	Non experimental survey design – Descriptive
<b>Summary of findings</b>	Women in the current study who were hospitalized appraised their own risk to be significantly lower than women who were never hospitalized and women previously hospitalized. Women previously hospitalized perceived the most risk to themselves and their baby. These findings suggest that the post hospitalization phase may be particularly stressful for expectant woman. Women reported significantly lower self-appraisal risk to mother scores than their nurse.
<b>Conclusions</b>	Current study contributes information regarding how the need for hospitalization, or lack of need, may affect expectants women’s subjective appraisal of risk. The current study also reinforces previously reported information regarding inconsistencies between how women interpret the risks to their pregnancy and the interpretations of health care providers.
<b>Similarities and differences between other studies</b>	Heaman et al ( 1992),Hedley and Harrigan ( 2009), White et al ( 2008)

<b>15. Full reference</b>	Heaman, M and Gupton, A (2009) Psychometric testing of the Perception of Pregnancy risk Questionnaire Research in Nursing & Health 32, pg. 493-503.
<b>Population targeted and number of participants</b>	199 women in third trimester of pregnancy
<b>Intervention or area of interest</b>	Purpose of the study was to refine a new instrument , the Perception of Pregnancy risk Questionnaire ( PPRQ) and conduct psychometric assessment of the final version
<b>Study method used</b>	Methodological study
<b>Summary of findings</b>	Evidence of construct validity was demonstrated using the known groups technique and through convergent validity. Ratings of pregnancy risk correlated with state anxiety level, providing evidence of concurrent validity.

<b>Conclusions</b>	The PPRQ had high internal consistency, reliability and excellent test – retest reliability. This new measure of self-risk will be a useful tool for the future research exploring this concept.
<b>Themes from main findings</b>	1.Measuring perception of risk
<b>Similarities and differences between other studies</b>	Gupton et al (2001)

<b>16. Full reference</b>	Bayrampour,H,Heaman,M,Duncan,K,Tough,S ( 2013) Predictors of Perception of Pregnancy Risk among Nulliparous Women JOGNN 42(4) pg. 416-426
<b>Population targeted and number of participants</b>	159 nulliparous women in their third trimester of pregnancy
<b>Intervention or area of interest</b>	To determine factors associated with perception of pregnancy risk using a conceptual framework based on a review of the relevant literature and the psychometric model of risk perception
<b>Study method used</b>	Correlational study
<b>Summary of findings</b>	Five factors were significant predictors of perception of pregnancy risk, including pregnancy related anxiety, maternal age, medical risk, perceived internal control and gestational age, accounting for a 47% - 49% variance in risk perception. An interaction between the pregnancy related anxiety score and maternal age was found.
<b>Conclusions</b>	These results contribute to the literature on perception of pregnancy risk by identifying a new predictor (gestational age) supporting the role of the previously known factors in the state of pregnancy, and proposing pregnancy related anxiety as a pregnancy dread factor in risk perceptions theories. This knowledge may have implications for developing more effective risk communication models.
<b>Themes from main findings</b>	1. Predictors of risk perception 2. Risk communication/ education
<b>Similarities and differences between other studies</b>	Headley and Harrigan ( 2009), Gupton et al ( 2001), Heaman et al ( 2004)

<b>17. Full reference</b>	Heaman, M, Gupton, Gregory, D (2004) Factors influencing Pregnant Women's Perceptions of Risk American Journal of Maternal Child Nursing 29(2) pg. 111-116
<b>Population targeted and number of participants</b>	205 women in the study, half (n= 103) had pregnancy complications, while the other half had (n= 102) had no know complications.
<b>Intervention or area of interest</b>	To explore factors women consider in determining their perception of pregnancy risk, and to compare and contrasts factors considered by women with complicated and uncomplicated pregnancies.
<b>Study method used</b>	Descriptive qualitative study using qualitative content analysis to interpret the data.
<b>Summary of findings</b>	Four major themes emerged that influenced perception of risk for both groups: self-image, history, health care and the unknown. Women with complications voiced greater risk perceptions and identified specific risks, while women with no complications mentioned potential risks that were diffuse and hypothetical.
<b>Conclusions</b>	Women do not necessarily use statistical odds in making their risk assessments, but rather use their own personal data. Results reveal that the process of risk assessment was multidimensional and influenced by more than statistical ratios, consistent with findings from other studies. Health professionals who communicate about risk need to understand the perspectives of those whom they advise.
<b>Themes</b>	Self-image, 2. History, 3. Health care, 4. The unknown
<b>Similarities and differences between other studies</b>	Corbin (1987), Stainton (1992), Patterson (1993), Jackson et al (2006), Simmons and Goldberg (2011), Gupton et al (2001)

<b>18. Full reference</b>	Bayrampour, H, Heaman, Duncan, k and Tough, S (2012) Advanced maternal age and risk perception: A qualitative study BMC Pregnancy and Childbirth 12: 100
<b>Population targeted and number of participants</b>	15 women of advanced maternal age (AMA)
<b>Intervention or area of interest</b>	Advanced maternal age is considered to be “high risk”. This study aimed to address this gap by exploring the risk perception of pregnancy women with AMA.
<b>Study method used</b>	Qualitative descriptive study. Content analysis was utilized to identify themes and categories
<b>Summary of findings</b>	Perception of risk may be an interaction among several factors including physiological and psychological elements, characteristics of the experienced risk and feedback from health care providers.
<b>Conclusions</b>	Understanding these influential factors which may influence perception of risk: medical risk, psychological elements, characteristics of risk, stage of pregnancy and health care providers opinion, may help health professionals who care for women of AMA to gain insight into their perspectives on pregnancy will improve the effectiveness of risk communication
<b>Themes</b>	1. Definition of pregnancy risk, 2. Factors influencing risk perception, 3. Risk alleviation strategies and 4. Risk communication with health professionals.
<b>Similarities and differences between other studies</b>	White et al ( 2008), Heaman and Gupton ( 2009), Heaman et al ( 1992), Gupton et al (2001)

<b>19. Full reference</b>	Papienik, E, Tafforeau, J, Richard, A, Pons and Keith, L (1997) Perception of Risk, choice of maternity site, and socio economic level of twin mothers Journal of Perinatal Medicine 25(2) pg. 139 – 144.
<b>Population targeted and number of participants</b>	546 mothers of twins
<b>Intervention or area of interest</b>	The objective of this study was to determine if access to high level health facility (level 3) perinatal center) is related to socio economic level of the mother and to her perception of risk for a twin birth
<b>Study method used</b>	Retrospective questionnaire administered to the mother of twins during first post-partum days in 27 maternity sites
<b>Summary of findings</b>	The opinion of mothers of twins about specific risk for her and her children is very different by socioeconomic level, as is the choice of level 3

<b>Conclusions</b>	The present study documents a major difference in the choice of perinatal level of the maternity site by social class, the higher the social class of the mother, and the higher the quality of the requested delivery site. As the level of perinatal care is a major factor associated with the survival and reduction of handicaps in pre term deliveries, differences in decisions made for or by pregnant women must be considered in any attempt to understand the discrepancies observed in fetal and neonatal morbidity by social groups, even if in this population the rates of preterm births and early preterm births appear to be equally distributed.
Themes from main findings	Factors affecting risk perception

<b>20. Full reference</b>	Corbin (1987) Women's perceptions and management of a pregnancy complicated by chronic illness Health Care for women international: the journal of the international Council on Women's Health Issues
<b>Population targeted and number of participants</b>	20 women with pregnancies complicated by the presence of a chronic illness.
<b>Intervention or area of interest</b>	This exploratory longitudinal study addresses how a group of chronically ill pregnant managed the medical risk factors associated with their pregnancies through a process of protective governing.
<b>Study method used</b>	Grounded Theory / constant comparative method for data analysis
<b>Summary of findings</b>	<p>Off course, non-critical context (risks seem a looming reality): Women felt that fetal heart rate and fetal movement indicative of fetal well-being. Four women held back on emotional attachment until they the immediate danger to them had gone. Women weighed the options available to them to bring the pregnancy and illness under control. Women were willing to do what they had to do necessary to achieve their goal of a healthy baby. They entrusted control in the health care team to delegate to them responsibility to take any action necessary. However, if the women felt that the potential risks of treatment had potential to cause greater harm than good they took back control.</p> <p>Of Course: High risk context: Where the pregnancy was perceived to be on course but there is uncertainty regarding its outcome, Perception of pregnancy risk was high so women felt that as long as the fetus continued to grow and move, they felt reassured. Because the risks were</p>

	perceived as high, women felt that they had fewer choices available. They employed corporative control to manage this problem of high risk, thus indicating the need for a degree of teamwork between the woman and the medical team. They realized that they had to delegate a large portion of responsibility to the medical team, in turn they knew that they had to cooperate with that plan.
<b>Conclusions</b>	<ol style="list-style-type: none"> <li>1. Important that women are given information about a wide range of strategies that they might use to manage their illness. This would make them feel in control and doing something positive to control their illness.</li> <li>2. Women have a right to know all the potential risks as well as benefits associated with a treatment.</li> <li>3. Women want healthy babies and will do what they believe is necessary to achieve that end, even if it means going against medical advice.</li> <li>4. Women are for the most part willing to negotiate with the health care team, if given the opportunity.</li> </ol>
<b>Themes</b>	1.Determinants of risk perception,2.Not seeing it the way others do,3.Normality versus risk,4.Managing risk,5.If the infant is ok, I'm ok
<b>Similarities and differences between other studies</b>	Corbin (1987),Stainton (1992),Patterson (1993),Heaman et al (2004),Jackson et al (2006) Simmons and Goldberg (2011) ,Keely et al (2011)

<b>21. Full reference</b>	Stainton M (1992) Mismatched caring in high risk perinatal situations Clinical Nursing Research pg. 35 – 49
<b>Population targeted and number of participants</b>	27 women recruited during a high risk pregnancy and 7 recruited following the birth of a high risk newborn
<b>Intervention or area of interest</b>	Learning about and understanding what being in a high-risk perinatal experience is like for women from their point of view.
<b>study method used</b>	Phenomenological approach
<b>Summary of findings</b>	Nurses are concerned with poor outcomes of maternal or infant mortality and focus on minimizing or preventing risks. Mother focus of the possibility of good outcomes and monitor their progress towards being a good mother. Both are synchronous with goals of caring. Mothers are labelled as denying and caregivers as worrying
<b>Conclusions</b>	Difference in the focus of care between the professionals and the mother.
<b>Themes</b>	1. Sources of caring, 2. Sources of knowledge, 3 Sources of meaning

<b>22. Full reference</b>	Stainton, C, McNeil, D and Harvey, S (1992) Maternal Task of Uncertain Motherhood Maternal Child Nursing Journal 20 (3, 4) pg. 113 – 122.
<b>Population targeted and number of participants</b>	Twenty-seven women from a high risk maternity population
<b>Intervention or area of interest</b>	Experience of women in a high risk perinatal situation
<b>Study method used</b>	Phenomenological approach
<b>Summary of findings</b>	Women in high risk situations work on the same developmental tasks described by Rubin (1975). However, these tasks are altered by the uncertainty of motherhood.
<b>Conclusions</b>	The original theory of developmental tasks described by Rubin (1975), prior to the creation of the population group labelled high risk is supported by this study.
<b>Themes from main study</b>	1. Seeking safe passage 2. Gaining acceptance by others 3. Binding in to the child. 4. Giving of oneself.

<b>23. Full reference</b>	Simmons, H, Goldberg, L (2011) "High risk" pregnancy after perinatal loss: understanding the label Midwifery 27 pg.452- 457
<b>Population targeted and number of participants</b>	Seven women receiving care following perinatal loss
<b>Intervention or area of interest</b>	Aim was to explore women's experience of living with "high risk" pregnancy following a perinatal loss
<b>Study method used</b>	Feminist phenomenological methodology
<b>Summary of findings</b>	Being labelled high risk meant that the woman received an elevated level of care: one she viewed as supportive – positive perception. The second theme relational engagement brought to light that the women in the study experienced a dichotomy within their relationship with their unborn babies. The third theme insight and acceptance of the influence of previous loss, the variability in healthcare providers, family, friends and the general public's ability to have insight into pregnancy was like for women who had a previous pregnancy loss. The fourth theme



	essentiality of information, delved into women in the study requiring information to help them cope during their high-risk pregnancies following perinatal loss.
<b>Conclusions</b>	Findings from this study suggest that a high-risk pregnancy following perinatal loss results in women embracing the high-risk label. The women following perinatal loss may perceive the label of high risk in a positive way.
<b>Themes</b>	1.Understanding the label of high risk,2 Relational engagement with the unborn infant, 3 Insight and acceptance of the influence of previous loss.,4 Essentiality of information
<b>Similarities and differences between other studies</b>	Patterson (1993), Jackson et al (2006)

<b>24. Full reference</b>	Patterson, K, A (1993) Experience of Risk for Pregnant Black Women Journal of Perinatology: official publication of the National Perinatal Association Mosby-Year Book INC 13(4) pg. 279.
<b>Population targeted and number of participants</b>	17 participants,7 at risk and 10 non –risk
<b>Intervention or area of interest</b>	Qualitative study exploring how risk is determined by black women during pregnancy
<b>Study method used</b>	Grounded Theory
<b>Summary of findings</b>	All women perceived their pregnancy as normal; for some that never changed: for others it did. The change was precipitated by the occurrence of an unexpected event, indicated by a critical moment. The critical moment is a dynamic interplay among biophysical changes, patterns of social interaction and inters subjective reflection. These findings emphasize the black women’s reliance on the significant role of sharing between black women in perpetuating their cultures normative expectations concerning
<b>Conclusions</b>	Study suggests that black women may not comply with preterm labour precautions because they do not define risk by the provider’s measure of mathematical probability. The desire to normalize the pregnancy is socio culturally driven. Stories of peer’s experiences, beliefs are used to bolster the black women’s views that the change that is occurring is normal. Need to understand that her perspective of her pregnancy is based on her families, and
<b>Themes</b>	Determinants of Risk Knowledge of Risk – The critical moment
<b>Similarities and differences between other studies</b>	Simmons and Goldberg (2011)
<b>25. Full reference</b>	Jackson, CJ, Bosio, P., Habiba, M, Waugh,, Kamal, Dixon- Woods, M (2006) Referral and attendance at a specialist antenatal clinic: qualitative study of women’s views BJOG An International Journal of Obstetrics and Gynaecology 113,909 – 913
<b>Population targeted and number of participants</b>	21 pregnancy women attending a hypertension clinic
<b>Intervention or area of interest</b>	To explore women’s experiences and perceptions of being referred to and attending a specialist antenatal hypertension clinic
<b>Study method used</b>	Qualitative interview study, Data analysis – constant comparative method
<b>Summary of findings</b>	Being referred to clinic conferred an at risk status on the pregnancy. Some women welcomed the referral, others found it unsettling. Many were unclear why they were referred there. Women felt that they were inadequately informed about why they were referred. Attendance at the clinic was cited as a source of reassurance, however some questioned the benefits of attending the clinic when they could have been managed in the community.

<b>Conclusions</b>	Women's accounts suggest that the interface between community and secondary antenatal services needs improvement to minimize the adverse effects from identifying women as "at risk" during pregnancy.
<b>Themes</b>	1. Being referred: identification of "riskiness" <sup>2</sup> , Attending the clinic: reassurance 3. Negotiating normality
<b>Similarities and differences between other studies</b>	Simmons and Goldberg (2011),

<b>26. Full reference</b>	Lee, S (2014) Risk perception in Women with high – risk pregnancies British Journal of Midwifery 22(1) pg.8 – 13
<b>Population targeted and number of participants</b>	Clinical Practice
<b>Intervention or area of interest</b>	Risk Perception in women with high risk pregnancies
<b>Study method used</b>	Clinical practice review
<b>Summary of findings</b>	Risk perception affects women's attitudes towards antenatal care. Women may not perceive risks in the same way as health – care professionals. Women will act in the way they believe best to protect their babies wellbeing. Midwives need to ensure the care they give is respectful and sensitive to individual women's circumstances
<b>Conclusions</b>	Midwives need to be sensitive when discussing risk. Particularly when women may not perceive the risks in the same way as health care professionals, They should ensure that each woman's needs and support are individualized. Women should be involved in the decision-making surrounding their care. Further research is required to establish how women prioritize the different sources of information they receive during pregnancy and how they decide which are trustworthy
<b>Themes</b>	1. How do women perceive risk? 2, Comparison with professionals' risks perception. 3. Women's attitude to care.
<b>Similarities and differences between other studies</b>	Lee et al ( 2014 ), Lee, Ayers and Holden ( 2012)

<b>27. Full reference</b>	Lennon (2016) Risk Perception in Pregnancy: a concept analysis Journal of Advanced Nursing 72(9) pg. 2016-2029
<b>Population targeted and number of participants</b>	Analysis of the concept of risk perception
<b>Intervention or area of interest</b>	Aim is to report an analysis of the concept of risk perception in pregnancy
<b>Study method used</b>	Walker and Avant's method was used to guide the analysis – thematic analysis
<b>Summary of findings</b>	The attributes of the concept are the possibility of harm to mother or infant and beliefs about severity of the risk state. The physical condition of pregnancy combined with the cognitive ability to perceive a personal risk state is antecedents. Risk perception in pregnancy influences women's affective state and has an impact on decision – making about pregnancy and childbirth. There are limited empirical references with which to measure concept.
<b>Conclusions</b>	Women today know more about their developing infant than at any other time in history: however, this has not led to a sense of reassurance. Nurses and midwives have a critical role in assisting pregnancy women, and their families to make sense of the information that they are exposed to. An understanding of the complexities of the concept of risk perception in pregnancy may assist

<b>28. Full reference</b>	Lee, S, Ayers, S and Holden, D (2016) Risk perception and choice of place of birth in women with high-risk pregnancies: A qualitative study <i>Midwifery</i> 38 pg. 49- 54.
<b>Population targeted and number of participants</b>	Twenty-six women with high-risk pregnancies, at least 32 weeks' gestation. Half were planning hospital births and half homebirths.
<b>Intervention or area of interest</b>	To examine perception of risk among a group of women with high-risk pregnancies who were either planning to give birth in hospital, home despite medical advice.
<b>Study method used</b>	Qualitative study using semi structured interviews, Results analyzed using thematic analysis
<b>Summary of findings</b>	Women from both groups had some understanding of the implications of their medical/ obstetric conditions. They displayed concerns about their baby's wellbeing. Women planning homebirths assessed their risks as lower and expressed less concerns than women planning hospital births. Women planning hospital births more frequently described following professional advice.
<b>Conclusions</b>	Risk perception is individual and subjective. Women with high-risk pregnancies who plan to give birth at home perceive risk differently to women who plan hospital births. Health care professionals working with women with high-risk pregnancies should be aware of the potential for differences in definitions and perceptions of risk within this group.
<b>Themes</b>	1. Understanding of situation, 2.judgment of risk, 3.Reassuring factors, 4, Impact of risk: and coping with risk.

<b>29. Full reference</b>	Lee, S, Ayers, S and Holden, D (2013) A meta synthesis of risk perception in women with high risk pregnancies, <i>Midwifery</i>
<b>Population targeted and number of participants</b>	Systematic search of eight electronic data bases
<b>Intervention or area of interest</b>	Risk perception in women with high risk pregnancies
<b>Study method used</b>	Systematic search
<b>Summary of findings</b>	Findings resulted in identification of five themes
<b>Conclusions</b>	Suggestion that women at high risk during pregnancy use multiple sources of information to determine their risk status. It shows that women are aware of the risk posed by their pregnancies but do not perceive risk in the same way as health care professionals. They will take steps to ensure the health of themselves and their infants but these may not include following all medical advice
<b>Themes</b>	1.Determinants of risk perception,2 Not seeing it the way others do,3 Normality versus risk4.If the infant is ok , I'm ok 5.Managing risk
<b>Similarities and differences between other studies</b>	Simmons and Goldberg ( 2011), Patterson ( 1993), Corbin (1987), Stainton ( 1992), Jackson et al ( 2006),Heaman et al ( 2004)

<b>30. Full reference</b>	Carolan, M (2008) Towards understanding the concept of risk for pregnant women: some nursing and midwifery implications Journal of Clinical Nursing 18,652-658.
<b>Population targeted and number of participants</b>	Pregnant women
<b>Intervention or area of interest</b>	Concept of risk as understood by health professionals and pregnant women
<b>Study method used</b>	Concept analysis
<b>Summary of findings</b>	Women make a subjective appraisal of risk, measuring it against their personal values and prior experience, while health professionals evaluate risk in an objective manner.
<b>Conclusions</b>	Health professionals and pregnant women understand risk differently. It is important that health professionals understand and respond to maternal understandings of risk.

<b>31. Full reference</b>	Lee, S, Ayers, S and Holden (2012) Risk Perception of women during high-risk pregnancy: A systematic review Health, Risk and Society 14(6) pg.511-531.
<b>Population targeted and number of participants</b>	High risk pregnant women
<b>Intervention or area of interest</b>	Review of quantitative measures of risk perception in women with high-risk pregnancies.
<b>Study method used</b>	6 cross sectional studies, 1 Retrospective study, mothers of twins
<b>Summary of findings</b>	Data from studies shows women with high-risk pregnancies are likely to recognize their condition presents a degree of risk to the wellbeing of themselves and or/ their babies. They are also likely to rate their degree of risk as higher than women with low risk pregnancies. Results are inconsistent for the association between women's perceived risk scores and healthcare professionals' ratings of risk. Socio-economic factors, when reported, suggest that women with high risk pregnancies are more likely to have completed education earlier, be of a lower income and be of an ethnicity other than white. Women from higher economic backgrounds are more likely to show concern about health risks. There is consistent positive association between risk perception and anxiety.

<b>Conclusions</b>	<p>Limited by the small number of studies in this area. Differences in risk perception between the women and health care professional should be managed respectfully and sensitive, conversations if women are not to feel alienated from, and so less likely to engage with healthcare services.</p> <p>Areas for future research: What information influences women when they make value judgments about risk? How health professionals assess risk and the development of a standardized risk perception assessment measure.</p>
<b>Themes from main findings</b>	1.Factors that influence risk perception 2.Measuring risk perception
<b>Similarities and differences between other studies</b>	Heaman et al ( 1992), Heaman and Gupton ( 2009), Gupton, Heaman et al ( 2001) , Gray ( 2006),Headley and Harrigan ( 2009) ,White et al ( 2008) ,Papiernik et al ( 1997)

Quality appraisal – qualitative studies (Atkins et al 2008)- Appendix 4b

Study	Are the research questions clear?	Is the qualitative approach appropriate for the research question?	Is the study context clearly described?	Is the role of the researcher clearly described?	Is sampling clearly described?	Is Data collection Clearly described?	Is the Analysis Clearly described?	Appropriate Sampling	To Data collection	research Analysis	Are the claims Made supported by sufficient evidence	Total Score
Corbin (1987)	1	1	1	X	X	x	x	1	1	1	1	7
Stainton (1992)	1	1	1	X	X	1	1	1	1	1	1	9
Patterson (1993)	1	1	1	X	1	1	x	1	1	1	1	9
Heaman et al ( 2004)	1	1	1	X	X	1	1	1	1	1	1	9
Jackson et al ( 2006)	1	1	1	X	1	x	1	1	1	1	1	9
Simmons & Goldberg ( 2011)	1	1	1	X	X	1	1	1	1	1	1	9
Stainton,et al (1992)	1	1	1	x	1	1	x	1	1	1	X	8
Stainton 1992)	1	1	1	x	1	1	1	1	1	1	1	10
Keely et al (2011)	1	x	1	x	1	1	1	1	1	1	1	9
Bayrampour et al ( 2012)	1	1	1	x	1	1	1	1	1	1	1	10



Quality appraisal – quantitative studies (Mirza and Jenkins 2004 )- Appendix 4c

Quantitative - Quality Assurance Mirza and Jenkins ( 2004)	Clear study aims	Adequate or justifiable sample size	Sample representative of population	Clear inclusion And exclusion Criteria	Reliability and validity of measure stated	Response/ or dropout rate specified	Adequate description of data	Appropriate statistical analysis	Discussion of potential for generalization included	Total Score
Gray (2006)	1	1	1	1	1	1	1	1	1	9
Gupton,Heaman and Cheung (2001)	1	1	1	1	1	1	1	1	1	9
Headley & Harrigan (2009)	x	x	1	X	1	x	1	1	1	5
Heaman et al (1992)	1	1	x	1	1	x	1	1	1	7
Heaman & Gupton ( 2009)	1	1	1	1	1	1	1	1	1	9
Papiernik et al (1997)	x	x	1	1	1	x	1	1	1	6
White et al (2008)	1	1	x	1	1	1	1	1	1	8
Gaudet et al ( 2011)	1	x	x	1	x	1	1	1	1	7
Kominarek et al (2010)	1	1	1	1	1	1	1	1	1	9
Nikert et al (2011)	1	1	x	X	x	1	1	1	1	6
Shub et al (2013)	1	1	x	1	x	1	1	1	1	7
Cannella et al (2013)	1	x	1	1	1	x	1	1	1	7

### CASP Checklist: 10 questions to help you make sense of a **Systematic Review**

**How to use this appraisal tool:** Three broad issues need to be considered when appraising a systematic review study:

- ▶ Are the results of the study valid? (Section A)
- ▶ What are the results? (Section B)
- ▶ Will the results help locally? (Section C)

The 10 questions on the following pages are designed to help you think about these issues systematically. The first two questions are screening questions and can be answered quickly. If the answer to both is “yes”, it is worth proceeding with the remaining questions. There is some degree of overlap between the questions, you are asked to record a “yes”, “no” or “can’t tell” to most of the questions. A number of italicised prompts are given after each question. These are designed to remind you why the question is important. Record your reasons for your answers in the spaces provided.

**About:** These checklists were designed to be used as educational pedagogic tools, as part of a workshop setting, therefore we do not suggest a scoring system. The core CASP checklists (randomised controlled trial & systematic review) were based on JAMA 'Users' guides to the medical literature 1994 (adapted from Guyatt GH, Sackett DL, and Cook DJ), and piloted with health care practitioners.

For each new checklist, a group of experts were assembled to develop and pilot the checklist and the workshop format with which it would be used. Over the years overall adjustments have been made to the format, but a recent survey of checklist users reiterated that the basic format continues to be useful and appropriate.

**Referencing:** we recommend using the Harvard style citation, i.e.: *Critical Appraisal Skills Programme (2018). CASP (insert name of checklist i.e. Systematic Review) Checklist. [online] Available at: URL. Accessed: Date Accessed.*

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Paper for appraisal and reference:

Section A: Are the results of the review valid?

1. Did the review address a clearly focused question?

Yes	<input type="checkbox"/>
Can't Tell	<input type="checkbox"/>
No	<input type="checkbox"/>

HINT: An issue can be 'focused' in terms of

- the population studied
- the intervention given
- the outcome considered

Comments:

2. Did the authors look for the right type of papers?

Yes	<input type="checkbox"/>
Can't Tell	<input type="checkbox"/>
No	<input type="checkbox"/>

HINT: 'The best sort of studies' would

- address the review's question
- have an appropriate study design (usually RCTs for papers evaluating interventions)

Comments:

Is it worth continuing?

3. Do you think all the important, relevant studies were included?

Yes	<input type="checkbox"/>
Can't Tell	<input type="checkbox"/>
No	<input type="checkbox"/>

HINT: Look for

- which bibliographic databases were used
- follow up from reference lists
- personal contact with experts
- unpublished as well as published studies
- non-English language studies

Comments:

4. Did the review's authors do enough to assess quality of the included studies?

Yes	<input type="checkbox"/>
Can't Tell	<input type="checkbox"/>
No	<input type="checkbox"/>

HINT: The authors need to consider the rigour of the studies they have identified. Lack of rigour may affect the studies' results ("All that glisters is not gold" Merchant of Venice – Act II Scene 7)

Comments:

5. If the results of the review have been combined, was it reasonable to do so?

Yes	<input type="checkbox"/>
Can't Tell	<input type="checkbox"/>
No	<input type="checkbox"/>

HINT: Consider whether

- results were similar from study to study
- results of all the included studies are clearly displayed
- results of different studies are similar
- reasons for any variations in results are discussed

Comments:

Section B: What are the results?

6. What are the overall results of the review?

HINT: Consider

- If you are clear about the review's 'bottom line' results
  - what these are (numerically if appropriate)
- how were the results expressed (NNT, odds ratio etc.)

Comments:

7. How precise are the results?

HINT: Look at the confidence intervals, if given

Comments:

Section C: Will the results help locally?

8. Can the results be applied to the local population?

Yes	
Can't Tell	
No	

HINT: Consider whether

- the patients covered by the review could be sufficiently different to your population to cause concern
- your local setting is likely to differ much from that of the review

Comments:

9. Were all important outcomes considered?

Yes	
Can't Tell	
No	

HINT: Consider whether

- there is other information you would like to have seen

Comments:

10. Are the benefits worth the harms and costs?

Yes	
Can't Tell	
No	

HINT: Consider

- even if this is not addressed by the review, what do **you** think?

Comments:

Appendix 6a Themes from Qualitative Literature

Studies	Understanding the high risk label	Determinants of risk perception	Coping strategies	Communicating risk	Experience of risk	Negotiating normality
Keely ,Gunning & Dennison (2011)	Y			y	Y	
Stainton ( 19920	Y				Y	Y
Heaman,Gupton and Gregory (2004)				Y	Y	Y
Corbin (1987)		Y	Y			Y
Patterson (1993)	Y	Y	y			Y
Simmons & Goldberg (2011)	Y		y	Y		Y
Jackson,Bosio and Habiba et al (2006)	Y		y			Y
Lee (2014)		Y			y	
Lee, Ayers and Holden (2016)	Y	Y	y			
Lee, Ayers and Holden (2013)		Y	y			Y

Studies	Understanding the high risk label	Determinants of risk perception	Coping strategies	Communicating risk	Experience of risk	Negotiating normality
Bayrampour, Heaman, Duncan et al (2012)		Y	Y			
Stainton, McNeil and Harvey (1992)			Y			

Appendix 6b Themes from quantitative data

Study	Knowledge of obesity related risks	Health Education	Determinants of perception of risk	Psychometric testing of risk perception	Perception of BMI (body image)
Nikert, Foxcroft and Lust (2011)	Y	Y			
Kominiarek, Vonderheid and Endres (2010)	Y				Y
Brooten, Youngblut, Gloebeski et al ( 2012)	Y	Y			
Gupton, Heaman & Cheung ( 2001)			Y	Y	
Lee, Ayers and Holden (2012)			Y	Y	
Headley and Harrigan (2009)				Y	
White, Noleen, McCorry et al (2008)				Y	
Gray (2006)			Y		
Okeh, Hawkins, and Butler (2015)	Y	Y			Y
Papienik, Tafforeau, Richard et al (1997)			Y		
Bayrampour, Heaman, Duncan et al (2013)		Y	Y	Y	



Shub, Huning, Campbell et al (2013) Heaman and Gupton (2009)	Y	Y		Y	Y
Heaman, Beaton, Gupton et al (1992)			Y		
Gaudet ,Gruslin and Magee ( 2010	Y				Y
Cannella,Auerbach and Lobel (2013)			Y		
de Jersey,Calloway and Daniels (2015)				Y	

Appendix 7a. Formation of themes from Qualitative data

<b>Understanding the high risk label</b>	<b>Determinants of risk perception</b>
Risk awareness & lived experience	Determinants of risk perception
Sources of knowledge	How do women perceive risk
Knowledge of risks	Perceptions of health
Being referred – identified as risky	Factors influencing risk perception
Understanding of the high risk label	How to health professionals perceive risk
Understanding the situation	
Understanding of risk	

<b>Coping strategies</b>	<b>Communicating risk</b>
Not seeing it the way others do	Essentiality of Information
Managing risk	Risk communication with health professionals
If the infant is ok, I'm ok	
Attending the clinic- reassurance	
Impact of risk and coping with risk	
Risk alleviation strategies	
Relational engagement with the new-born	
Insight and acceptance of previous loss	
Reassuring factors	

<b>Negotiating normality</b>	<b>Experience of risk</b>
Normality versus risk	Health care
Self-image	The unknown
Negotiating normality	Experience of the NHS
	Sources of caring
	Medical obstetrical problems

Appendix 7b. Formation of themes from Quantitative data

<b>Quantitative Themes: Knowledge of risk</b>	<b>Psychometric testing of risk perception</b>
Knowledge of obesity related risks	Factors affecting risk perception
Knowledge of maternal risks	
Knowledge of neonatal risks	

<b>Health education</b>	<b>Determinants of Perceptions of risk</b>
Communicating risk	Predictors of risk perception
	Factors influencing risk
	Differing perceptions of risk- maternal appraisal v health professional

<b>Perception of BMI</b>	
Body- image	

Appendix 8

Waverley Gate  
2-4 Waterloo Place  
Edinburgh  
EH1 3EG  
Telephone 0131 536 9000

[www.nhslothian.scot.nhs.uk](http://www.nhslothian.scot.nhs.uk)

Date 07 May 2014  
Your Ref  
Our Ref

Enquiries to: Joyce Clearie  
Extension: [REDACTED]  
Direct Line: [REDACTED]  
Email: J [REDACTED]

07 May 2014

Miss G Norris  
[REDACTED]

Dear Miss Norris

**Study title:** Labelled "High Risk" Exploring obese women's perception of risk during childbirth  
**REC reference:** 14/SS/0085  
**Protocol number:** N/A  
**IRAS project ID:** 141937

Thank you for your letter of 06 May 2014, responding to the Committee's request for further information on the above research and submitting revised documentation.

The further information has been considered on behalf of the Committee by the Chair.

We plan to publish your research summary wording for the above study on the HRA website, together with your contact details, unless you expressly withhold permission to do so. Publication will be no earlier than three months from the date of this favourable opinion letter. Should you wish to provide a substitute contact point, require further information, or wish to withhold permission to publish, please contact the REC Manager Ms Joyce Clearie, [joyce.clearie@nhslothian.scot.nhs.uk](mailto:joyce.clearie@nhslothian.scot.nhs.uk).

**Confirmation of ethical opinion**

On behalf of the Committee, I am pleased to confirm a favourable ethical opinion for the above research on the basis described in the application form, protocol and supporting documentation [\[as revised\]](#), subject to the conditions specified below.

**Ethical review of research sites**

[\[Omit this sub-section if no NHS sites will be taking part in the study, e.g. Phase 1 trials in healthy volunteers\]](#)

NHS sites

The favourable opinion applies to all NHS sites taking part in the study, subject to management permission



Headquarters  
Waverley Gate, 2-4 Waterloo Place, Edinburgh EH1 3EG

Chair Mr Brian Houston  
Chief Executive Tim Davison

being obtained from the NHS/HSC R&D office prior to the start of the study (see "Conditions of the favourable opinion" below).

Non-NHS sites

### Conditions of the favourable opinion

The favourable opinion is subject to the following conditions being met prior to the start of the study.

Management permission or approval must be obtained from each host organisation prior to the start of the study at the site concerned.

*Management permission ("R&D approval") should be sought from all NHS organisations involved in the study in accordance with NHS research governance arrangements.*

Guidance on applying for NHS permission for research is available in the Integrated Research Application System or at <http://www.rdforum.nhs.uk>.

*Where a NHS organisation's role in the study is limited to identifying and referring potential participants to research sites ("participant identification centre"), guidance should be sought from the R&D office on the information it requires to give permission for this activity.*

*For non-NHS sites, site management permission should be obtained in accordance with the procedures of the relevant host organisation.*

*Sponsors are not required to notify the Committee of approvals from host organisations*

### Registration of Clinical Trials

All clinical trials (defined as the first four categories on the IRAS filter page) must be registered on a publically accessible database within 6 weeks of recruitment of the first participant (for medical device studies, within the timeline determined by the current registration and publication trees).

There is no requirement to separately notify the REC but you should do so at the earliest opportunity e.g when submitting an amendment. We will audit the registration details as part of the annual progress reporting process.

To ensure transparency in research, we strongly recommend that all research is registered but for non clinical trials this is not currently mandatory.

If a sponsor wishes to contest the need for registration they should contact Catherine Blewett (████████████████████), the HRA does not, however, expect exceptions to be made. Guidance on where to register is provided within IRAS.

**It is the responsibility of the sponsor to ensure that all the conditions are complied with before the start of the study or its initiation at a particular site (as applicable).**

### Approved documents

The final list of documents reviewed and approved by the Committee is as follows:

<i>Document</i>	<i>Version</i>	<i>Date</i>
Covering Letter		08 April 2014

Evidence of insurance or indemnity	Napier Univ public /employers insurance and Personal Indemity	01 August 2013
GP/Consultant Information Sheets	v2	01 May 2014
Interview Schedules/Topic Guides	1.0	03 January 2014
Investigator CV	1.0	03 January 2014
Other: Debrief sheet	1.0	03 January 2014
Other: HADS		
Other: CV Dr ZOË CHOULIARA	1.0	03 January 2014
Other: CV: DR ADELE DICKSON	1.0	03 January 2014
Other: Midwifery Team Leader Letter	2	01 May 2014
Participant Consent Form: PCF	v2	01 May 2014
Participant Information Sheet: PIS	v2	01 May 2014
Protocol	1.0	03 January 2014
REC application		14 April 2014
Response to Request for Further Information		06 May 2014

### Statement of compliance

The Committee is constituted in accordance with the Governance Arrangements for Research Ethics Committees and complies fully with the Standard Operating Procedures for Research Ethics Committees in the UK.

### After ethical review

#### Reporting requirements

The attached document “*After ethical review – guidance for researchers*” gives detailed guidance on reporting requirements for studies with a favourable opinion, including:

- Notifying substantial amendments
- Adding new sites and investigators
- Notification of serious breaches of the protocol
- Progress and safety reports
- Notifying the end of the study

The NRES website also provides guidance on these topics, which is updated in the light of changes in reporting requirements or procedures.

#### Feedback

You are invited to give your view of the service that you have received from the National Research Ethics Service and the application procedure. If you wish to make your views known please use the feedback form available on the website.

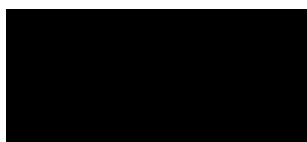
Further information is available at National Research Ethics Service website > After Review

<b>14/SS/0085</b>	<b>Please quote this number on all correspondence</b>
-------------------	---

We are pleased to welcome researchers and R & D staff at our NRES committee members' training days – see details at <http://www.hra.nhs.uk/hra-training/>

With the Committee's best wishes for the success of this project.

Yours sincerely



**Mr Thomas Russell**  
**Chair**

Email 

*Enclosures:* "After ethical review – guidance for researchers" [\[SL-AR2\]](#)

*Copy to:* Miss G Norris  
Karen Maitland, NHS Lothian

Appendix 9

Waverley Gate  
2-4 Waterloo Place  
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EH1 3EG  
Telephone 0131 536 9000

[www.nhslothian.scot.nhs.uk](http://www.nhslothian.scot.nhs.uk)

Date 20 June 2014  
Your Ref  
Our Ref

Enquiries to: Joyce Clearie  
Extension: [redacted]  
Direct Line: [redacted]  
Email: [redacted]

20 June 2014

Miss G Norris  
[redacted]  
[redacted]n

Dear Miss Norris

**Study title:** Labelled "High Risk" Exploring obese women's perception of risk during childbirth  
**REC reference:** 14/SS/0085  
**Protocol number:** N/A  
**Amendment number:** 14/SS/0085 AMO1 SA1  
**Amendment date:** 11 June 2014  
**IRAS project ID:** 141937

The above amendment was reviewed at the meeting of the Sub-Committee held on 18 June 2014 by the Sub-Committee in correspondence.

The Committee queried whether what proposed with this amendment would conflict with the process previously agreed by the Committee but noted that it did not. No further significant ethical issues were raised.

**Ethical opinion**

The members of the Committee taking part in the review gave a favourable ethical opinion of the amendment on the basis described in the notice of amendment form and supporting documentation.

**Approved documents**

The documents reviewed and approved at the meeting were:



INVESTORS  
IN PEOPLE



Healthy  
Working  
Lives

Headquarters  
Waverley Gate, 2-4 Waterloo Place, Edinburgh EH1 3EG

Chair Mr Brian Houston  
Chief Executive Tim Davison

*Lothian NHS Board is the common name of Lothian Health Board*



<i>Document</i>	<i>Version</i>	<i>Date</i>
Notice of Substantial Amendment (non-CTIMP) [SA ]		11 June 2014
Research protocol or project proposal [Protoocl]	2	11 June 2014

### **Membership of the Committee**

The members of the Committee who took part in the review are listed on the attached sheet.

### **R&D approval**

All investigators and research collaborators in the NHS should notify the R&D office for the relevant NHS care organisation of this amendment and check whether it affects R&D approval of the research.

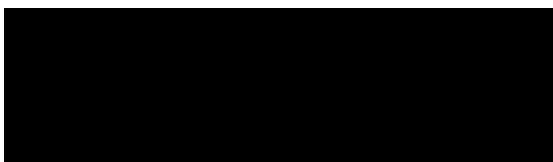
### **Statement of compliance**

The Committee is constituted in accordance with the Governance Arrangements for Research Ethics Committees and complies fully with the Standard Operating Procedures for Research Ethics Committees in the UK.

We are pleased to welcome researchers and R & D staff at our NRES committee members' training days – see details at <http://www.hra.nhs.uk/hra-training/>

<b>14/SS/0085:                    Please quote this number on all correspondence</b>
--

Yours sincerely



**Jo Mair  
Chair**

E-mail: 

*Enclosures:                    List of names and professions of members who took part in the review*

*Copy to:                        Ms Karen Maitland, NHS Lothian, Academic and Clinical Central office for Research and Development  
Miss G Norris,*

**South East Scotland 02**

**Attendance at Sub-Committee of the REC meeting on 18 June 2014**

**Committee Members:**

<i>Name</i>	<i>Profession</i>	<i>Present</i>	<i>Notes</i>
Ms Joanne Mair	Portfolio Manager	Yes	
Professor Lindsay Sawyer	Retired University Lecturer	Yes	

**Also in attendance:**

<i>Name</i>	<i>Position (or reason for attending)</i>
Mr Alex Bailey	Scientific Adviser
Ms Joyce Clearie	Coordinator

Queen's Medical Research Institute  
47 Little France Crescent, Edinburgh, EH16 4TJ

FM/NM/approval

25 June 2014

Ms Gail Norris  
Edinburgh Napier University  
Sighthill Campus  
Sighthill Court  
Edinburgh  
EH11 4BN

Research & Development  
Room E1.12  
Tel: 0131 242 3330

Email:  
R&DOffice@nhslothian.scot.nhs.uk

Director: Professor David E Newby

Dear Ms Norris

**Lothian R&D Project No:** 2014/0205

**Title of Research:** Labelled "High Risk" Exploring perception of risk during childbirth in women with an increased body mass index > 35kg/m<sup>2</sup>

**REC No:** 14/SS/0085

**Patient Information Sheet:**

Version 2 dated 1 May 2014

**Consent Form:**

Version 2 dated 1 May 2014

**Protocol:**

Version 2 dated 11 June 2014

I am pleased to inform you that this study has been approved for NHS Lothian and you may proceed with your research, subject to the conditions below. This letter provides Site Specific approval for **NHS Lothian**.

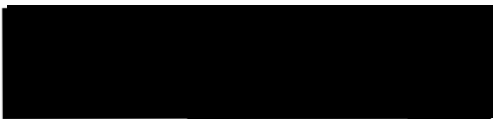
Please note that the NHS Lothian R&D Office must be informed if there are any changes to the study such as amendments to the protocol, recruitment, funding, personnel or resource input required of NHS Lothian. This includes any changes made subsequent to management approval and prior to favourable opinion from the REC.

Substantial amendments to the protocol will require approval from the ethics committee which approved your study and the MRA where applicable.

Please inform this office when recruitment has closed and when the study has been completed.

I wish you every success with your study.

Yours sincerely



Ms Fiona McArdle  
Deputy R&D Director

CC Ms Fiona Mitchell, General Manager, Women and Children's Services, RHSC

## HAD SCALE

Name: ..... Date: .....

Doctors are aware that emotions play an important part in most illnesses. If your doctor knows about these feelings he will be able to help you more.

This questionnaire is designed to help your doctor to know how you feel. Read each item and place a firm tick in the box opposite the reply which comes closest to how you have been feeling in the past week.

Don't take too long over your replies: your immediate reaction to each item will probably be more accurate than a long thought-out response.

*Tick only one box in each section.*

<p><b>I feel tense or 'wound up:</b>            Most of the time .....            A lot of the time .....            Time to time, occasionally.            Not at all .....</p>	<p><b>I feel as if I am slowed down:</b>            Nearly all the time .....            Very often .....            Sometimes .....            Not at all .....</p>
<p><b>I still enjoy the things I used to enjoy:</b>            Definitely as much .....            Not quite so much .....            Only a little .....            Hardly at all .....</p>	<p><b>I get a sort of frightened feeling like 'butterflies' in the stomach:</b>            Not at all .....            Occasionally .....            Quite often .....            Very often .....</p>
<p><b>I get a sort of frightened feeling as if something awful is about to happen:</b>            Very definitely &amp; quite badly            Yes, but not too badly .....            A little, but it doesn't worry me.            Not at all .....</p>	<p><b>I have lost interest in my appearance:</b>            Definitely .....            I don't take so much care as I should            I may not take quite as much care            I take just as much care as ever</p>
<p><b>I can laugh and see the funny side of things:</b>            As much as I always could            Not quite so much now ....            Definitely not so much now            Not at all .....</p>	<p><b>I feel restless as if I have to be on the move:</b>            Very much indeed .....            Quite a lot .....            Not very much .....            Not at all .....</p>
<p><b>Worrying thoughts go through my mind:</b>            A great deal of the time ....            A lot of the time .....            From time to time but not too often .....            Only occasionally .....</p>	<p><b>I look forward with enjoyment to things:</b>            As much as ever I did .....            Rather less than I used to .....            Definitely less than I used to ...            Hardly at all .....</p>
<p><b>I feel cheerful:</b>            Not at all .....            Not often .....            Sometimes .....            Most of the time .....</p>	<p><b>I get sudden feelings of panic:</b>            Very often indeed .....            Quite often .....            Not very often .....            Not at all .....</p>
<p><b>I can sit at ease and feel relaxed:</b>            Definitely .....            Usually .....            Not often .....            Not at all .....</p>	<p><b>I can enjoy a good book or radio or TV programme:</b>            Often .....            Sometimes .....            Not often .....            Very seldom .....</p>

*Do not write below this line*

A - (8-10) .....

D - (8-10) .....

# HAD SCALE SCORE SHEET

	A		D
	3		3
	2		2
	1		1
	0		0
D			A
0			0
1			1
2			2
3			3
	A		D
	3		3
	2		2
	1		1
	0		0
D			A
0			3
1			2
2			1
3			0
	A		D
	3		0
	2		1
	1		2
	0		3
D			A
3			3
2			2
1			1
0			0
	A		D
	0		0
	1		1
	2		2
	3		3

FOR PHYSICIAN/ NURSE USE Patients Name/No:

D (8-10) .....

A (8-10) .....

HAD Scores of over 10, change of duties and refer to OHP

HAD Scores of over 21, ask whether panic attacks have occurred.

**“ Labelled high risk”**

**Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m<sup>2</sup>**

**You are being invited to take part in this research study which is looking at the perception of risk during childbirth in women with a raised body mass index (BMI) over 35kg/m<sup>2</sup>. Before you decide whether or not to take part, it is important for you to understand why the research is being done and what it will involve. Please take time to listen to the following information carefully and discuss it with others, if you wish. Please ask me if there is anything that is not clear or if you would like more information. Take some time to decide whether or not you wish to take part.**

**What is the purpose of the study?**

Your BMI matters because your weight is closely linked to your long-term health. People with very low or very high BMIs tend to have the greatest health risks. People with an overweight BMI are at greater risk of a range of serious health conditions, including heart disease, diabetes and high blood pressure.

**During pregnancy**

If you are pregnant and have a raised body mass index (BMI) 30 and above then you are considered to more at risk than women of a normal weight of developing complications during your pregnancy and giving birth. This includes a higher risk of developing conditions such as pre eclampsia (high blood pressure) diabetes and caesarean section. For this reason you are considered “high risk” throughout your pregnancy.

Within Lothian maternity services if you have an increased body mass index (BMI) over 35 (class 11 obesity) you will be referred at the first booking appointment with the midwife to the hospital for consideration for Consultant led care. This means that rather than seeing the midwife only throughout your pregnancy you will also be closely monitored by the Consultant throughout your pregnancy journey.

Having a raised BMI may also affect the choices that you would like to make during the birth of your baby e.g. using a birthing pool during labour is not recommended.

A team of researchers at Edinburgh Napier University are interested in the personal experience of pregnant woman who at the beginning of their pregnancy have a BMI over 35kg/m<sup>2</sup>. This project is interested in YOUR experiences of being “higher risk” and how it affects YOUR pregnancy and birth. We are interested in learning more about your own feelings of being more at risk of complications developing during your pregnancy. This project will be running for the during of your pregnancy, approximately 9 months.

**Why have I been asked to take part?**

You have been asked to take part as you have a BMI over 35kg/m<sup>2</sup> at the beginning of your pregnancy.

**Do I have to take part?**

No, it is up to you to decide whether or not to take part. If you do decide to take part you will be given this information sheet to keep and be asked to sign a consent form. If you decide to take part you are still free to withdraw at any time and without giving a reason. Deciding not to take part or withdrawing from the study will not affect the healthcare that you receive, or your legal rights.

**What will happen if I take part?**

If you decide that you would like to be involved, you will take part in a series of three interviews with the first one taking place around 18 – 22 weeks into your pregnancy. The second interview will take place around 34 – 36 weeks into your pregnancy and the third interview will take place around 10 – 15 days after the birth of your baby. The interviews will take place in a location of your own choosing (at home if you wish). First I will ask you to complete a short questionnaire (approximately 5 mins). This questionnaire is the Hospital Anxiety Depression questionnaire that is used by Health Professionals to detect any underlying feelings of anxiety/depression. Any feelings of anxiety /depression can affect how you feel about risks during your pregnancy. I can score your questionnaire immediately after you complete it. If the outcome of your questionnaire reveals that you are suffering from undue anxiety / depression then I would not advise you to take part and I would notify your GP/ community midwife of this outcome. I would also advise you to seek support from your GP / community midwife.

The interviews will concentrate on your experience of being at a higher risk of developing complications during childbirth. While there are a number of different areas that I am interested in asking you about, I'm hoping that you will communicate freely and openly about the things that are most important to you. Please try to be as honest as you can about your experiences and remember that I am not here to judge you in any way. I simply want to understand what being considered a higher risk is like for you. With your permission, I will record the interview on a digital voice recorder. This is just so that I can give you my full attention and so that I can type the interview up at a later date. This is a normal procedure for this type of project.

**What are the possible benefits of taking part?**

You may not get a direct benefit from taking part in this study but the results from this study will give a better understanding and deeper insight into what it means to be considered at a higher risk of developing complications during childbirth in relation to an increased BMI (body mass index).

**What are the possible disadvantages and risks of taking part?**

It is not thought that there are many disadvantages; however, it is possible that you might become upset due to the sensitive nature of the questions. Please remember that you do not have to answer any questions that you do not wish to. If you do feel uncomfortable, embarrassed or upset at any time, please just ask me to

stop. You are free to withdraw from the research at any time. This will not affect your future pregnancy in any way.

### **What if there is a problem?**

If you have concerns about any aspect of this study please contact:

Gail Norris  
Edinburgh Napier University  
Sighthill Court  
Edinburgh Napier University EH11 4BN  
Tel: [REDACTED]  
Email: [REDACTED]

Who will do their best to answer your questions?

In the unlikely event that something goes wrong and you are harmed during the research and this is due to someone's negligence then you may have grounds for a legal action for compensation against NHS Lothian but you may have to pay your legal costs. The normal National Health Service complaints mechanisms will still be available to you.

### **What happens when the study is finished?**

The study will continue for the nine month period of your pregnancy. Any data collected will be retained for the five year period of the PhD study. At the end of the research study all tape recordings and confidential information in relation to you will be destroyed.

### **Will my taking part in the study be kept confidential?**

All the information we collect during the course of the research will be kept confidential and there are strict laws which safeguard your privacy at every stage. With your consent we will inform your GP/ community midwife that you are taking part.

Study researchers will need access to your medical records to carry out this research.

To ensure that the study is being run correctly, we will ask your consent for responsible representatives from the Sponsor Edinburgh Napier University and NHS Institution to access your medical records and data collected during the study, where it is relevant to you taking part in this research. The Sponsor is responsible for overall management of the study and providing insurance and indemnity.

If you decide to take part, you will be asked to give a false name before we start the interview. We will refer to this name at all times. We will also change all of the names of the people and places that you refer to during the interview. All personal details (e.g. name, age, date of birth, address etc.) will be stored in a locked filing cabinet at Edinburgh Napier University so that no one but the researcher can access your details. With your permission, we will record the interview so that the researcher can type it up afterwards. The tape recording of your interview will remain within a locked



filing cabinet until the researcher has typed it up. It will then be deleted. Your details will remain confidential at all times.

**What will happen to the results of the study?**

Results of this study will be presented as a group .The results may be presented at relevant conferences and may be published in academic journals. However, all personal details will remain confidential at all times and we will only ever refer to the false name that you give at the beginning of the interview.

**Who is organising the research and why?**

Edinburgh Napier University are organising and funding the research as part of a PhD educational award.

**Who has reviewed the study?**

The study proposal has been reviewed by Doctor Adele Dickson and Doctor Zoe Chouliara. All research in the NHS is looked at by an independent group of people, called a Research Ethics Committee. A favourable ethical opinion has been obtained from Lothian Ethics Committee. NHS management approval has also been obtained.

**If you have any further questions about the study please contact Gail Norris on: [REDACTED] or email: [REDACTED]**

**If you would like to discuss this study with someone independent of the study please contact:**

**Dr Barbara Neades**

[REDACTED]  
**Edinburgh Napier University**  
**Sighthill Court**  
**Edinburgh**  
**EH11 4BN**  
**Telephone [REDACTED]**  
[REDACTED]

**If you wish to make a complaint about the study please contact NHS Lothian:**

**NHS Lothian Complaints Team**  
**2nd Floor**  
**Waverley Gate**  
**2 - 4 Waterloo Place**  
**Edinburgh**  
**EH1 3EG**  
**Tel: 0131 465 5708**  
**[complaints.team@nhslothian.scot.nhs.uk](mailto:complaints.team@nhslothian.scot.nhs.uk)**

Thank you for taking the time to read this information sheet.



CONSENT FORM

“Labelled high risk”

Exploring perception of risk during childbirth in women with an increased  
body mass index > 35kg/m<sup>2</sup> Appendix 12b.

Participant ID:

Gail Norris  
Edinburgh Napier University  
Sighthill Court  
Edinburgh  
EH11 4BN  
Tel: [REDACTED]  
E-mail: [REDACTED]

Please initial box

1. I confirm that I have read and understand the information sheet for the above study and have had the opportunity to consider the information and ask questions.
2. I understand that my participation is voluntary and that I am free to withdraw at any time, without giving any reason, without my medical care or legal rights being affected.
3. I understand that relevant sections of my medical notes and data collected during the study may be looked at by individuals from Edinburgh Napier University from the NHS organisation or other authorities, where it is relevant to my taking part in this research. I give permission for these individuals to have access to my records.
4. If I withdraw from the study I agree to allow any data collected up to my withdrawal to be used for the intended purpose of the study.
5. I agree to my General Practitioner/ community midwife being informed of my participation in this study.
6. I agree to take part in the above study

\_\_\_\_\_  
Name of Participant

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name of Person taking consent

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

1x original – into Site File; 1x copy – to Participant; 1x copy – into medical records



## Appendix 13

Date: 13.7.15

Dear Doctor

Re: "Labelled high risk"

Exploring perception of risk during childbirth in women with an increased body mass index  $>35\text{kg/m}^2$ .

The above Individual has kindly agreed to take part in a research project entitled: "Labelled high risk" Exploring perception of risk during childbirth in women with an increased body mass index  $>35\text{kg/m}^2$ .

This is a qualitative study exploring the personal experience of pregnant women who at the beginning of their pregnancy have a BMI  $> 35\text{kg/m}^2$  at booking. These women and their babies are considered to be more at risk than a woman of normal weight in developing complications during childbirth. Some of these complications include thromboembolism, pregnancy induced hypertension, pre eclampsia, gestational diabetes mellitus, still birth and are at an increased risk of a caesarean section and postpartum haemorrhage during pregnancy and birth. The negative impact that obesity has on the baby includes babies who are large for gestational age, congenital abnormalities and increased admissions to neonatal units. Current Lothian guidelines " Obesity management during pregnancy and postnatally " recommend that women with a ( body mass index) BMI  $> 35\text{kg/m}^2$  are referred for consideration of Consultant led care and part of these guidelines also recommend that women receive discussion surrounding the increased risk of complications associated with a raised BMI . The study, given favourable opinion by [Lothian Ethics Committee ref number 14/SS/0085], is being conducted by Gail Norris Midwife Lecturer/ PhD student.

The purpose of the study is to explore these individuals perception of their risk during pregnancy and childbirth.

The above individual has agreed to participant in the above study which will involve a series of three interviews with the first one taking place around 18 – 22 weeks, 34 – 36 weeks and the last one taking place in the postnatal period 10 – 15 days after

the birth of the baby. The interviews will be taped recorded and transcribed verbatim and confidentiality will be protected at all times.

A copy of the participant information sheet is enclosed for your information. Should you have any questions regarding this study, please do not hesitate to contact me by email [REDACTED], or phone [REDACTED]

Yours sincerely,

Gail Norris  
Midwife Lecturer  
Edinburgh Napier University  
Sighthill Campus  
Sighthill Court  
Edinburgh  
EH11 4BN



Date:

Midwifery Team;

Tel:

Dear Midwifery Team Leader,

Re: "Labelled high risk" Exploring perception of risk during childbirth in women with an increased body mass index  $>35\text{kg}/\text{m}^2$

Name :

The above individual has kindly agreed to take part in a research project entitled: "Labelled high risk" Exploring perception of risk during childbirth in women with an increased body mass index  $>35\text{kg}/\text{m}^2$ .

This is a qualitative study exploring the personal experience of pregnant women who at the beginning of their pregnancy have a BMI  $> 35\text{kg}/\text{m}^2$  at booking. These women and their babies are considered to be more at risk than a woman of normal weight in developing complications during childbirth. Some of these complications include thromboembolism, pregnancy induced hypertension, pre eclampsia, gestational diabetes mellitus, still birth and are at an increased risk of a caesarean section and postpartum haemorrhage during pregnancy and birth. The negative impact that obesity has on the baby includes babies who are large for gestational age, congenital abnormalities and increased admissions to neonatal units. Current Lothian guidelines " Obesity management during pregnancy and postnatally " recommend that women with a ( body mass index) BMI  $> 35\text{kg}/\text{m}^2$  are referred for consideration of Consultant led care and part of these guidelines also recommend that women receive discussion surrounding the increased risk of complications associated with a raised BMI . The study, given favourable opinion by [Lothian Ethics Committee ref number 14/SS/0085], is being conducted by Gail Norris Midwife Lecturer/ PhD student.

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Yours sincerely,

Gail Norris  
Midwife Lecturer  
Edinburgh Napier University  
Sighthill Campus  
Sighthill Court  
Edinburgh  
EH11 4BN





Appendix 14  
**Participant de-brief**

**“Labelled High Risk”**

**Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m<sup>2</sup>**

Thank you so much for your time and co-operation on this research study. The information you have given me has been most helpful. Should you have any questions or concerns about anything that you have said or discussed today please do not hesitate to get in touch with one of the following people?

GPS Name :

OR :

Community Midwifery Team:

These contact details can also be found in your hand held maternity records.

Thank you again- your help is much appreciated.

Gail Norris  
Edinburgh Napier University  
Sighthill Court  
Edinburgh  
EH11 4BN  
Telephone: [REDACTED]  
[REDACTED]

(Appendix 15) “Labelled high Risk “Exploring perception of risk during childbirth in women with an increased body mass index > 35kg/m<sup>2</sup>.

### **Interview Schedule**

**Interview one – 18 – 22 weeks.** (Normally fetal anomaly scan takes place around now).

1. Tell me about your pregnancy so far / what are your expectations of this pregnancy/ do you have a specific plan of birth?
2. The midwife at the booking clinic has discussed the risks associated with pregnancy and your increased weight (BMI). What did she say? What do you understand by the term high risk?
3. You have been referred to the Consultant Obstetrician/ metabolic clinic/anaesthetist for your care rather than just the midwife .Do you understand why? How do you feel about this?
4. What does this mean to you to have your pregnancy referred to as high risk?
5. How would you describe yourself as a person? Happy / anxious/moody? Does being referred to as high risk affect your mood?
6. Has being referred to as high risk made a difference to how you feel about your pregnancy/ baby?
7. Does being referred to as high-risk affect your relationship with your partner/ family / friends?
8. How did you feeling going for your 20 week scan? What were you expecting from this scan?

### **Interview two 34 – 36 weeks**

1. Has your pregnancy gone the way that you would have liked?
2. What other health professional has mentioned risks associated with obesity in pregnancy?
3. Has you high-risk pregnancy affected your everyday life?
4. If I asked you to define the term risk, what does it personally mean to you?
5. Do you personally see yourself as high risk? What does your partner/ family friends think?
6. What are your thoughts around giving birth?
7. How has being referred to as high risk altered what you would have planned for your birth?

8. Do you think about life beyond giving birth? (Clarify if required – does being referred to as high risk during this pregnancy motivate you to lose weight postnatally?)

### **Interview three – postnatal 10 – 15 days.**

1. Reflecting back on your pregnancy what did you think high risk meant?
2. Did you see yourself as being high risk?
3. In relation to high risk how much did you think about your own health and health of your baby during pregnancy and giving birth?
4. If you had any complications / Health problems would you say any of these were related to your weight?
5. How would you describe your relationship with your midwife? Did you openly discuss risks with her? Did you discuss risks with any health professional?
6. If yes how helpful was the information? How would you have liked to have seen the information in relation to risks and increased BMI delivered?
7. Describe your pregnancy and giving birth. Did it meet your expectations?
8. Describe your feelings going into labour knowing you were high risk (emotionally/ mentally)
9. Only if appropriate (why did you think you needed the C/S or forceps/ ventouse?)
10. So how did she feel when you had to go to theatre- what were your worries? What factors do you think might have led to you needing a C-section? Could you have prevented it in any way?
11. Then looking back, what would you do differently?
12. What advice would you give to other overweight women who are trying for/expecting a baby?
13. Looking back over your pregnancy and delivery, what are your thoughts on obesity and risk now? If you had to pinpoint any risk factor, what would you say caused you the most risk during the pregnancy and why?
14. Are health professionals right to be concerned about overweight/obesity in pregnancy? If so, why? If not, why not?
15. How much did your care during pregnancy and giving birth vary from what you had expected? How did you feel about your care that you received? Did anyone discuss choices available throughout your pregnancy and birth?

- 1 G: Alright [REDACTED] so that's you at 34 weeks now/  
 2 [REDACTED]: Yes. So basically I had, Wednesday I got up and I  
 3 never felt the baby moving all day so I went up to. Well I  
 4 lay on my left side first of all for a few hours, still nothing.  
 5 Drank my can of coke and I never felt anything so I  
 6 phoned them and they said just come up. So, they put  
 7 him on a heart rate monitor and his heart was fine, and  
 8 then, they did a scan to check the amniotic fluid, which  
 9 they said was fine. Then they told me to come back the  
 10 next day for my growth scan because they were worried  
 11 that the baby was small. So I went back up and basically  
 12 they found out that he's very big. His head is measuring at  
 13 37 weeks and his body is measuring at 40 weeks but his  
 14 legs are only 34 weeks. (LAUGHS)  
 15 G: (LAUGHS)  
 16 [REDACTED]: So I don't know what's happened to him. They asked  
 17 me if my partner was tall and I said that he is not tall, he's  
 18 just a bit, he's a bit taller than me but just a couple of  
 19 inches really. So they took bloods for, to check for  
 20 gestational diabetes. They asked me if I had my bloods  
 21 done at my midwife, which I had, 5 weeks, I'm due to see

Does not sound upset

Does not sound  
upsetShe does not use the term  
midwifeDoes she feel that she is not in  
control here

Laughing

Refers to midwife as them

There is no relationship here

22 her tomorrow but she had done them 5 weeks ago and I  
23 hadn't had the results back but triage checked them and  
24 they said they were fine but they did bloods again last  
25 Thursday and I phoned them this morning to see if they  
26 were back and I don't have diabetes so that's good. They  
27 said it was 3.9.

Sense of relief that does not have diabetes

Was she worried that she did have diabetes ?

Relieved ?

28 G: Mmhmm. Right

29 ■: So. That kind of put my mind at ease a bit but, I was  
30 thinking about, see when, see after they had taken the  
31 test. Even without knowing the results. I then started

Emotional impact – self blame

32 criticising myself in my head for all the takeaways that I've  
33 ever had while I was pregnant and the biscuits that I've  
34 eaten and thinking, I went through my full price thing and  
35 went I really should have eaten better. I really should  
36 have/

Seems to be blaming herself for what she has eaten

Is she feeling some shame and self-blame ?

37 G: Mmhmm

38 ■: Aye, I just without even knowing/

39 G: What made you think like that? What's?

40 ■: I think I kind of felt that because it might be diabetes.

41 That I had brought it on myself through my diet.

So she is aware of the risk of diabetes in relation to her weight !

Emotional Impact- self blame

Self – blame

42 G: Right.

43 ■: And I just started thinking, oh I shouldn't have been

44 having those takeaways and I have been having a bit

45 extra tea in, a bit extra sugar in my tea because when I

46 started drinking it again. I was really enjoying it and I was

47 thinking oh a bit of sugar and then I started, I was just

48 going through, aye I was criticising myself in my head.

49 G: So did you then start to associate your increased BMI

50 with the risks associated with increased/

51 ■: Yeah.

So she is aware of associated risk !

52 G: In your head?

53 ■: So I already knew, obviously because I was overweight

54 before I got pregnant. Interestingly enough as well, I was

55 looking back at my notes to see about my weight and,

56 because I had been reading, I think it was from a couple

57 of weeks ago. You put on a pound a week.

58 G: Yes.

59 ■ And half of that goes to you and half of it to the baby.

60 So I had that in my head already. But everybody,

61 everybody that sees me apart from the bump obviously

Emotional consequences – self – accusations, self blame

She is being critical of her dietary lifestyle. She knows that she should not have eaten the biscuits and the sugar. Know it is wrong

Consumed by guilt, self – blame

Demonstrates awareness of risks associated with her BMI

She has made the association between her weight and diabetes as a risk. She appears to be taking some responsibility here

What exactly does she have in her head ?

She has made the connection with her BMI and large baby. Is she blaming herself for a large baby ?

Consumed by guilt, blame for her size

62 says that you look like you've lost loads of weight and I  
63 don't see it obviously because I just see this. But I looked  
64 back and I was at my first booking appointment I was 16  
65 stone 6, I think, and I weighed myself, yesterday, and I'm  
66 just under 17 stone.

She is influenced by others comments. What does she mean by this

Appears disgusted by her appearance

Appears weight conscious. Happy to have not much weight on

67 G: Oh because/

68 ■: So I had put on/

69 G: They say, yeah/

70 ■: So I must have lost weight in the first bit of it I think.

Appears happy here

Them versus me relationship

71 G: They say, I have read that you should be looking at  
72 about a stone, 1 stone 6 pounds, to put on, in total.

Never refers to health professionals by name

Self – congratulating. Sense of control

73 ■: So I think I've probably done not bad at all.

Self-congratulating

74 G: How does that make you feel?

75 ■: Aye, it makes me feel I am interested to see what  
76 weight I'm going to be when he comes out. (LAUGHS)

Full of anticipation

77 G: (LAUGHS)

78 ■ and once all the fluid and everything goes away I think,  
79 aye that made me feel a bit better but then I was thinking.

Thinking about the well - being of her baby

80 Is that really bad have I starved him then in the first 3

Self- blame , what has she done to her baby

81 months when I've not been eating, and you do aye it was  
82 just terrible I just started thinking to myself, oh this is my

Worried for the health of her baby.

83 fault and he's going to be born big and I just started  
84 worrying more about the labour. Which I was already

Consumed by guilt ! What has she done, self- blame

85 worried about just in general because I've never given  
86 birth before. And I said to the junior doctor I think she

Having a big baby has added to the worry of giving birth

87 was. On the day I had gone back on the Thursday to get  
88 the scan and I said, I was like, because they didn't seem

Lack of relationship between herself and health professionals

89 overly, I mean they seemed, they were like aye he's big  
90 but they didn't seem overly worried, and I'm saying to her.

Refers to health professionals as they

91 Are you not worried? That he's like the size of a full term  
92 baby now and I'm only 33 weeks. And she just looked at

Making a size comparison here to a large baby

93 me and she went, well you know she said, women do give  
94 birth to 10, 11 and 12 pound babies. And I was, I was

95 thinking. Aye, but I don't want to do that for my first baby. I  
96 was just a bit like, she was saying it like. Yes this is just a

She is consumed , with guilt, She did this

97 normal, some babies are big, and I'm thinking. No how  
98 can a ten pound baby come out of me? (LAUGHS)

Worrying about her giving birth, but not the health of the baby

99 G: There is, there is an error of miscalculation.

100 ■ Aye and, do you know most people I've spoken to have  
101 said, Oh they told me my baby way big when actually they

Refers to friends and family stories



102 were only 6 pounds and I think in my head, I calculated  
103 the size to my weight. Which was of course is more/

She is starting to panic about the size of the baby

104 G: Do you feel yourself it's a big baby?

105 ■: No.

So she herself does not feel that it is a big baby

106 G: No, so.

107 ■: I feel, I feel like my bump is, a lot of it is baby like there  
108 is, I can definitely, I've been aware of where he's lying, for  
109 ages and ages, I know, I could tell his feet are here. I feel  
110 big strong kicks and his bum, and his back. I didn't realise

Trying to justify her size by her pregnancy and size of the baby

111 though that his heads a way down here. I thought his  
112 head was over here. I think he moves about up here. But.

Aware of her baby – bonding . Does not feel big to her

113 No I don't feel like he's/ massive

114 G: (LAUGHS) Cos that's what we say when we train  
115 midwives and that. That you go by what you're feeling,  
116 and go by what mums telling you.

117 ■: Aye rather than the instruments because they are  
118 trying to get a snapshot at that time. So you can see them  
119 trying to get it and trying to get it. So I've to go back,

She knows her own baby .

120 basically to go and get monitored. Twice a week now on a  
121 Tuesday and a Friday they said, on a Tuesday I've to go

They said !

Relationship with health professionals. Them v me

No relationship here

122 up and get the heart rate. I can't mind if they're doing the  
123 scan on the same day but basically twice a week the  
124 heart rate's getting monitored, and, once, once a week  
125 the amniotic fluids scan. And then in 3 weeks they'll give  
126 me another growth scan. So I've kind of, now I've got, and  
127 they've not said this to me. I need to ask them to get it out  
128 my head but now I've got it in my head that when I go in  
129 there in 3 weeks they're going to say, this baby is too big  
130 and he's to come out of you now.

Recalling her plan of care  
over the next few weeks

Is this close medical  
surveillance panicking her.  
Does she fear losing  
control ?

Excessive thinking  
about giving birth  
to large baby –  
losing control

131 G: How would you feel if they did say that?

132 ■: I think. I think I'm kind of preparing myself. For them  
133 saying that for some reason and I think that's what's  
134 made me think about stopping my work early. Cos I,  
135 cause I kind of realistically think that if they have got their  
136 measurements right. He might come early anyway if he's  
137 that size. Maybe, maybe my body and he will decide  
138 that's them cooked enough.

Is She is thinking that they  
are going to suggest a C/S  
because of his size ?

She is starting to feel that she  
is losing control here

139 G: (LAUGHS)

140 ■: (LAUGHS) And out, and out you come. That's you,  
141 you're fully grown. The other part of me is thinking, I feel a  
142 bit panicky, thinking he's that big, they're going to leave

Feeling panic and out of control

Losing control here !

Losing control of  
her birth

143 me to full term and that I'm not going to be able to deliver

144 him.

Now feels that she cannot deliver her baby

Losing faith in her ability to birth her baby

145 G: Aye. Go back to how you were feeling about when you

146 were starting to think about the risks and the fact that he

147 was a big baby. Go back; describe your feelings a bit

148 more

149 ■: So I was kind of thinking, a lot of it I was thinking was

150 to do with my diet. That actually, somehow I had caused

151 it. I didn't, there was bits that didn't match up for me

152 though because, and I still in my head believe this is what

153 happened. Basically the night before. The night before I

154 stopped feeling him moving. I had woke up in the middle

155 of the night. With really bad cramp in my bum, which I've

156 never had in my life before but it was like a massive, both

157 sides of my bum and I remember saying to Danny, I

158 jumped up out my bed, which was agony because you

159 can't move fast/

160 G: (LAUGHS)

161 ■: (LAUGHS) And I was like ahh. And because the cramp

162 was so bad, I was saying. You need to rub my bum; you

163 need to rub my bum. And I'm wondering if what's

She is linking her diet to the size of her baby

Feeling guilty and self-blame . She did this to her baby

Feeling confused by events

Over consumed by guilt for her baby's size

164 happened is he has moved positions and I did ask them  
165 about this. He's kicking into the back of me as opposed to  
166 out the front more rather than all of a sudden he's giant.

167 Because to me, his movements were really, predictable,

She knows her own baby

168 and like honestly, I could like, I could go like that and he

169 would kick me, if I was sitting on my phone like this, he

Bonded with her baby

170 would be saying, no you're squashing me, get off me. All

171 these things that just stopped happening within the space

172 of a day. So I'm, I kind of thought, either that panics me

Realises that her baby is not moving about as much

173 that there is something really wrong here. That he's not

174 moving. And then it wasn't until later that I thought, but I

175 did wake up with that like, something had happened. I

176 don't know. Cos I kind of thought he'd changed positions

177 but then I just started, Aye, I just. All started going through

She is starting to relate her size and diet to harming her baby

178 my head about, I've not eaten as healthily as I should

179 have eaten throughout this pregnancy and like in my head

180 thinking, half of that, half of that was, just me being too

Over consumed with guilt, relating her diet to her baby's health

181 tired or too lazy or whatever after work. To eat as healthily

182 as I could have. And thinking then that I've, then thinking

183 that I've caused him to be too big. And then I was

Feeling responsible for her baby's health

184 thinking, oh my god does that mean that I've given him

185 health problems before he's even, born. So just, just this

What have I done to my baby. I did this to him !

I am his mother  
,My baby.  
Relationship.  
Bonding with her  
baby

Self -accusations - My  
fault – I did this to  
him . Self- blame

Self-accusations of blame

186 kind of, catastrophic thinking, just went, spiralling,  
187 spiralling, spiralling, thinking. Oh that's it I've done this to

She is blaming herself for her baby not moving

188 my baby. panic

She is consumed with guilt. She has no control over any of this now

189 G: And what, what about your husband, is he, did you  
190 speak to him about it?

191 Aye. I never really spoke to him about all the, I said to  
192 him about the healthy eating thing. But he, he, he said  
193 that his perception was that actually I had eaten quite  
194 well. And when I think back to the, certainly when I think  
195 back to the first part of my pregnancy. Practically the only  
196 thing I could face to eat was fruit at the time. Aye I could  
197 have lived of fruit for a fortnight, fruit and crackers or  
198 something. So his, I think he had a better perspective on it  
199 than me. I think he could look a bit more objectively at it  
200 and he was saying aye you have had takeaways. But.

She is having conversations with her husband with regards her diet and eating habits.

Panicking. Knows the connection between her diet and large baby. Full of regret.

Having conversations with diet with husband. Looking for more positive answer though

Excessive thinking about diet, Self-accusations of blame.

201 Actually I've had ate less crisps and chocolate since I've  
202 been pregnant probably more than I have done in the last  
203 ten years of my life, and that's not been a hugely  
204 conscious thing. That's just been, I've not wanted, my  
205 bodies not wanted it the same as I would have wanted it  
206 before. So objectively, not, it probably hasn't been as bad  
207 as it was in my head. And he, he's just kind of trying to

Consumed by guilt. Knows diet has not been good.

Lack of relationship with the midwife

208 reassure me. Although it, it was hilarious listening to him  
209 when he was telling his parents and that. He was just  
210 making up stuff that the midwives had said to us.

She has mentioned midwives – first time

211 G: (LAUGHS)

Feeling of the loss of control . Recognising partners fear too

212 ■: (LAUGHS) Honestly He was like saying; I can't mind  
213 what I heard him saying. I was like; no they never said  
214 that at all Danny. (LAUGHS) He had, what was it he was  
215 saying? Oh he was, which must be a bit of his fear as  
216 well, he was telling them, he said so if he was born now.  
217 He wouldn't need to go to a neo natal unit. Is what, that's  
218 what he was telling folk but nobody had ever even spoken  
219 to us about that?

She is recognising that her husband is fearful of the present situation – big baby and reduced movement

Recognizing that this is out of both their control

220 G: So you think deep down he's quite fearful?

Partner is fearful of the outcome

221 ■: Aye. I think he is. Because. The fact that he, he's kind  
222 of made up that story in his head. Thinking because the  
223 size of him is full term that, that means he'll be fine, and  
224 that's obviously what I was thinking, that's obviously him  
225 reassuring himself in his head. Cause he's big he will be  
226 alright.

She is recognizing that her husband is feeling stressed.

227 G: Mmhmm. I think you were you fearful at all about this  
228 at all? What's your thoughts?

Fearful now of a complicated birth

229 ■: I'm more fearful about the giving birth, and thinking. But  
230 I, but that's more for my pain perspective. I'm not,  
231 because I know now that I've not got the diabetes. I'm not  
232 so worried about the health things at all I just think well, if  
233 he is a big baby. He's just a big baby. But it more worries  
234 me about, complications for birth, thinking, if he's too big  
235 for me to get out. Does that mean then that I'm going to

She seems to be relieved that she does not have diabetes. She is becoming fearful of giving birth with a big baby. Preparing for the worst-case scenario.

Feels that she has lost control

236 be at more of a chance of an emergency caesarean? I've  
237 got it in my head, thinking, should I ask them about being  
238 induced earlier, or, like taking me for a caesarean as  
239 opposed to it being/

Wants to take control back of the situation

240 G: Emergency?

Panicking about birth complications

241 ■: Emergency. I start, I've started kind of, I've made it up  
242 in my own head a bit that in 3 weeks I'm going to get this  
243 growth scan and somehow, these will be my options.  
244 (LAUGHS)

She is starting to pre-empt what is going to happen

Starting to worry more about labour

245 G: (LAUGHS) What, what about, what would you like to  
246 happen?

Refers to friends and family for information

247 ■: Aye I know, I've been thinking about it, thinking. For  
248 what folk. For what folk have told me about getting  
249 induced, it's not a good way, it's not a, well it's not the

Thinking about labour. Talking to friends about induction

Listen to her mothers  
experience of  
childbirth

250 best experience. Folk have said as well. And my mum  
251 was telling me she got induced with the twins and that  
252 basically the labour was a lot, she must have went  
253 through several things I'm guessing until she got, I don't  
254 know what it's called but the drip.

Looking to her  
mother for advice

255 G: The syntocinon drip?

256 ■ She said that just brought on the contractions too  
257 quickly and it was too sore and she didn't/

258 G: Yeah. You've no got a natural build up.

Fears birth of large  
baby- losing  
control

259 ■ Exactly, so that, that, that process kind of worries me a  
260 bit although from being, I've just finished the ante natal  
261 classes so she was explaining, like induction, as kind of  
262 like different levels of things they can do and that doesn't  
263 put me off quite as much. But I do worry about, how I  
264 would cope, delivering a big baby. Which makes the idea  
265 of thinking that a planned caesarean is less pain, well, it's  
266 not obviously there is after things that's painful but, well I

Worried about  
induction of labour

Who is in  
control here ?

Worrying about  
giving birth to a  
big baby

Fears safety  
of giving birth  
to her baby

267 don't know, more painful, it's painful, but thinking, is that  
268 safer than struggling through a really long labour that,  
269 that's, I might not get him out and end up having to have  
270 an emergency so I, I don't know, and the other, there's

Fear of safety of  
baby



Maternal need to protect her baby	271	another bit of me that thinks, he's safer in here for longer,	Wants to protect her baby
	272	so I think, I feel like, if <u>they would let me carry him longer</u> ,	Strong maternal instincts bond to protect her baby
Fear of losing control of her birth	273	and then give me a caesarean. I feel like that's better than	
	274	bringing him out early by getting induced. But I don't have	She is starting to relinquish control
	275	(LAUGHS)	
	276	G: (LAUGHS)	
	277	█: I don't have any knowledge to back that up. I've no	
	278	idea if that's the case or not.	
	279	G: So. By choice would you, would you prefer an elective	
	280	caesarean section?	
She has lost faith in her ability to birth her baby	281	█: By choice, if that was the options, I think I would ask to	Would prefer not to be induced
	282	go, nearer my due date, I would ask to go longer and	
	283	have a planned caesarean than be induced early.	Has she lost faith in giving birth vaginally
	284	G: And if/	
	285	█: Because I feel like he's safer in there for longer.	Fears that her baby is no longer safe inside her
	286	G: And what if labour started on its own?	Now questioning the safety of her baby- lost faith in herself
Fears the safety of her baby	287	█: Yeah that's what I thought; I've been thinking that	
	288	as well. Right but what happens then <u>if they leave</u>	She is not feeling part of the decision making
They are now controlling her birth	289	<u>me</u> , and I go into labour on my own and then I have to,	She is losing control here
	290	try and deliver him. Yeah I think I'm just go, I think I'm	

Feels that she has lost control	<p>291 just going down a road that's going to end up in an</p> <p>292 emergency caesarean. And I started; my sister gave</p> <p>293 me a load of hypno birthing stuff which I've not even</p> <p>294 listened to yet. So I spent yesterday uploading that onto</p> <p>295 my iPod and everything so that I could start with that and I</p>	She feels like this is all going to end in a c/s anyway
Fear and panic over giving birth	<p>296 was thinking, that was going through my head as well I</p> <p>297 was thinking, I'm not even going to have the hypno</p> <p>298 birthing to fall back on I'm just going to have nothing and I</p> <p>299 just felt. All of a sudden like that, I'm just totally</p>	She is starting to feel that this is not going to end well
	<p>300 unprepared for going into labour. Just like Oh my god</p> <p style="text-align: right;">panic</p>	Fearful and feels a loss of control
	<p>301 G: Do you think you would have felt any differently if your</p> <p>302 scan had said he was, he's/</p>	
	<p>303 ■: small</p>	
	<p>304 G: Uh huh</p>	
	<p>305 ■: Aye I know, I don't know.</p>	
	<p>306 [...]</p>	
Estimating her own risks now	<p>307 ■: I, this sounds ridiculous but it would have probable,</p> <p>308 it's not more reassuring than, but I feel like I might be</p> <p>309 less worried. Even though it's probably equally as bad, or</p> <p>310 worse probably for, the baby to be smaller. But. And this</p>	She feels that she would be less worried if he was a small baby
		She is equating a large baby with more risk. Estimating her own risk

	311	isn't logical. But it wouldn't add. It wouldn't have added to	
	312	my concerns about going through labour if I thought he	She is excessively thinking of her big baby. Her thoughts are in turmoil
	313	was small. I'm not saying the smallness would have	
	314	reassured me because I would have been worried about	
	315	why he was small and why he was wee and why he	
Guilt and self-blame for what she has done to her baby	316	wasn't growing and actually no I would probably have still	She is feeling that this is her fault because of her diet
	317	<u>blamed myself for</u> not eating properly if he was small. I	Feels a strong sense of guilt and blame
	318	would think well I've not ate the proper things to bulk him	
Stressing over the implications of giving birth to a large baby	319	out enough or something, so probably the same things	
	320	but without, without the added stress of how difficult is the	
	321	labour going to be now.	She is starting to think about giving birth
	322	G: So/	Fearing the birth of a big baby
	323	█: That would be the bit that was different I think.	
	324	G: So if I go back again and one of the very first things I	
	325	asked you at the very first interview was your definition of	
	326	your high risk and what did you think I meant by high risk.	
	327	Has that changed now or	
	328	[...]	
Undecided /Confusion over high-risk status	329	█ I don't know.	Can't decide if she is at risk
	330	[...]	Confusion over risk status

She is trying to understand the associated risks	<p>331 ■: Maybe logically no. But emotionally yes. So</p> <p>332 logically I'm thinking. No it might just be a big baby.</p> <p>333 But then, I don't know if he's bigger because I was</p> <p>334 bigger. I don't know if there is a correlation between</p> <p>335 me being bigger and him being bigger.</p>	She does sound confused	She is starting to think about a connection between her BMI and the big baby	Dismisses any association between her weight and the baby's weight
	336 G: Well/			
	337 ■ I think there is/			
	338 G: There is uh huh.			
Medical staff trying not to scare- playing down the risks	<p>339 ■ I think I read that. That there is, so. But. Whether</p> <p>340 that's higher risk than being a wee baby I don't know,</p> <p>341 and thinking. The doctor kind of responded, women</p> <p>342 give birth to 10, 11, I don't want a 12 pound baby.</p>	<p>She has read that there is a connection between her weight and the weight of the baby</p> <p>She is denying her risks, she knows that there is a risk but does not believe it</p>	She acknowledges the response from the doctor	
	343 G: (LAUGHS)	Are the health professionals highlighting the risks enough ?		
Feeling very stressed and anxious about birthing a large baby	344 ■ (LAUGHS) Do you hear me? There is no doubt about it	laughs		
	345 I do not like that prospect in the slightest.	She clearly does not want to birth a big baby		
	346 G: (LAUGHS)			
She is now making the connection with her weight and that of the baby. Recognising the risks	<p>347 ■ And I suppose in that sense yes, in that sense it</p> <p>348 has changed because, well, <u>that is the risk</u>, I was</p>	Now she is acknowledging the connection between her weight and the baby's weight		Risks are more real now that she has experienced a complication

She can see the risks but not convinced that she accepts them

349 more overweight, he's bigger, therefore the birth, is  
350 potentially more complicated now.

351 G: So would you say you accept that as a risk now?

352 Associated with the higher BMI.

She is now acknowledging that there is probably risks

353 ■ Yes, probably.

Reluctant to accept the risks

354 G: Did any other health professionals anywhere

355 throughout your pregnancy ever mention your increased

356 risk of a bigger baby, caesarean section?

No reference to risk made by health professionals

357 ■ No.

She is acknowledging that health professionals do not talk about the risks

358 G: No. Increased BMI?

Confirmation that lack of risk discussion by health professionals

359 ■ No.

360 G: Nobody else has mentioned anything at all?

361 ■ No. It's never been spoken about.

She confirms risks are not spoken about about

Risk has never been communicated by health professionals

362 G: How does that make you feel? It's never been spoken

363 about.

Feels isolated and vulnerable

364 ■: I, I kind of feel, I mean you don't want, I, I was saying

She is feeling left in the dark

365 this to Danny, It's, I kind of feel you're kind of left a lot to

366 go through your pregnancy like obviously until last week.

Feeling very alone and vulnerable

367 I've had very few dealings with anybody to do with the

368 pregnancy. And things like, I thought, I thought for some  
369 reason I would have been more, cushioned by the  
370 midwives or something. So things like, things that I just  
371 thought would happen that I've actually had to do myself,  
372 have surprised me. Things like I, I got my own flu jab  
373 organised through work. I arranged for my own whooping  
374 cough vaccine, those things weren't discussed with me.  
375 What was the other thing you were saying about? The two  
376 things. My mat B form I was meant to get it 27 weeks after  
377 and I never got mine until 2 weeks ago or something  
378 when I phone up and asked for it, and I kind of think at my  
379 appointments. I think because the midwives are so  
380 pushed for time, and you can see it because there is  
381 always somebody else waiting, I don't know how long  
382 they get for appointments. I think she said something like  
383 20 minutes or something. I think realistically there is not  
384 enough time in those appointments for them to go  
385 through, I suppose for them to give an individual service  
386 that they would probably want to give. Because whenever  
387 I've asked questions. My midwife's brilliant but I just think  
388 that they've got to do the checks, like the physical  
389 checks to make sure everything's fine. And that's, really,

Felt that midwives were uncaring, felt that she would have felt more protected

Feeling vulnerable

Lack of individualised midwifery care received

Busy midwives

Midwives too busy for caring

Physical needs met but psychological needs avoided

Lack of individualised care, time restricted

Likes here midwife, but aware that she is too busy

Midwifery care addresses the physical aspects but what about the psychological aspects

390 that's what they need to cover in that session so there  
391 probably isn't enough time for all these other things. So I  
392 kind of feel that a lot of that's been left up to me to read  
393 about or find out.

394 G: How does that make you feel/

395 ■: More about/

396 G: That it's left up to you.

397 ■: I suppose I wished I had been, I probably wished I had

398 been spoon fed a bit more information than I have been. I

399 do sometimes wonder when folk find out you're a nurse

400 that they think you know more than you do. I even, I seen

401 it when I went up to the physio at the royal because, I

402 could, because I was having great difficulty turning myself

403 in my bed without all the pelvic pain and actually she

404 ended up, she was brilliant she showed me like, just

405 things like to hold in my pelvic muscles and it's made the

406 world of difference, but, she talked to me totally normally.

407 Until she got to the question, what's your job title, and I

408 said advanced nurse practitioner with mental health and

409 she started stammering and couldn't. She was like I don't

410 know how to spell the word practitioner and I was like,

Expresses that information given during pregnancy was inadequate

She is describing her experience of being a patient

Feeling very vulnerable

Being a health care professional herself, actually created a barrier when she was receiving care

Feels that her position as a health practitioner was a barrier to her care

411 don't worry I forget it all the time. But I think that, is in the  
412 back of folks minds so they maybe don't give you as  
413 much information and I know, I do a carers group at the  
414 hospital and there's a man who is a consultant, who has a  
415 son who has mental health problems and he says it as  
416 well. He says, he says I think folk are frightened to talk to  
417 me because I'm a doctor, and so they don't offer me the  
418 same support. I think there's a truth in that. I think if folk  
419 see that they think, oh she's clued up on it or, and to an  
420 extent I do know where to go for information. I can do that  
421 but at the same time you think well this has never  
422 happened to me before I would like people to look after  
423 me a wee bit, but, I mean she did at the first appointment,  
424 she did say to me about the metabolic clinic and did I  
425 want to go. And I kind of decided, I decided I didn't want  
426 to go because I thought. I know all the things about  
427 healthy eating. I don't want to, start being monitored from  
428 the start of my pregnancy because I think once you go  
429 down that route, I think it's harder to get back down a  
430 midwifery led route and the more you're being monitored  
431 the more they can pick up, things that might have  
432 progressed fine anyway.

Wants to feel cared for  
and protected

Knows what a  
healthy diet is,  
letting us know  
that she is in  
control here

She admits that she knows  
what a healthy diet is but  
chooses how she uses this  
information

Wants to avoid any  
medical intervention

Acknowledges that if  
your being monitored  
it can lead to  
interventions

Wants to avoid surveillance  
/Wants to be in control and  
avoid medical intervention



Happy to accept surveillance and monitoring closely for reduced fetal movement

433 G: So how, how does it make you feel now that they want  
434 you back every 2 weeks?

435 ■ I'm no, I'm not quite sure what, well she explained to  
436 me, they're basically, they're just wanting to make sure  
437 the baby will be fine but they don't want to miss that baby  
438 who's movements change. But I think the reason that they  
439 monitor. But I do want to clarify it is because the  
440 movements changed. And the movements are definitely  
441 still different, that's, without a doubt, but, he has been  
442 moving since after that day which is the main thing but,  
443 there's something about me suddenly having to adjust to  
444 this baby that moved one way for my full time that I've felt  
445 him move to now that he moves a different way and that's  
446 psychological, that's really difficult to get used to. And. I

Wants the reassurance that all is ok with the baby but is now frightened that the more she is monitored that they will find something else

Feels more reassured with medical surveillance but still wants to be included in the decision making

447 feel like, I feel like the more I'm on the radar, but I, the  
448 more, they might, they might pick up things that are  
449 wrong? But I do feel a bit more reassured thinking, I'm  
450 glad they know he's big now, and that actually they'll be.  
451 Well hopefully there's a bit of me that thinks, they'll look  
452 after that bit now, and they'll kind of direct me or offer me  
453 suggestions as to, what I should do if I need to change  
454 anything. As in, if they are going to say, we thing you

Fears for the safety of her baby and welcomes medical surveillance now. Putting her trust in medical staff

Reflecting back on the consequences of not detecting a large baby

455 should, get induced early or, we want you to think about a  
456 caesarean, whereas, if I hadn't ever gone. That wouldn't  
457 have been picked up, because they wouldn't have done  
458 another growth scan. If everything had been going along  
459 normally. They wouldn't have done another growth scan  
460 and then it goes in my head that then I would get to labour  
461 and I would be trying to push out a 12 pound baby  
462 (LAUGHS)

463 G: (LAUGHS)

464 ■: I think, do you know?

465 G: Does it make you feel safer then?

466 ■ Yes.

Feels safer with more medical surveillance

467 G: Yes.

Feels safer with more medical surveillance, but knowing now frightens her

468 ■ I think it does make me feel safer. I'll see what they say  
469 after the next growth scan (LAUGHS) Whether I feel safer  
470 but it does, aye, a bit reassured, there's part of me that, I  
471 don't know, there's part of me that still wishes I didn't  
472 know. Because I think that's got an influence now on how  
473 I, I feel worse and more frightened about labour, and if I  
474 didn't know, and actually women do give birth to 10 and

Is feeling relieved that her big baby has been detected, rather than go into labour and find out then

The fear of knowing that she has a large baby

Now in fear of giving birth to a large baby

475 11 pound babies, that actually that would just have been  
476 my experience and, and the birth might have been  
477 perfectly safe and normal and natural. And I would have  
478 done my hypno birth and, the baby might have come out  
479 and now I think, I think it's put an extra worry into me,  
480 about the size. The physical size of this thing coming out  
481 of me. Which I was worried about anyway. I think it's  
482 increased that and I don't think that's good for my labour.

483 G: Does it make the risk any, when I, when I, when you  
484 look back and I first spoke about you being high risk does  
485 that make it any more, does that make it more real now?  
486 When you've read about the association between a higher  
487 BMI, a bigger baby does that make/

488 ■ Yeah/

489 G: The risk more real now in your head?

490 ■ Definitely.

491 G: Yeah. How does that make you feel?

492 ■ I feel torn about it, because. I feel that the risk could  
493 increase because of my perception of the risk. Does  
494 that make sense? So because I'm more worried about

Having to recognise the risks now makes labour more fearful

Part of her would have liked to not have known the risk of a big baby as she will now worry excessively

Wants to deny the risk

Now that she knows the risks she will worry excessively and that again might increase her risks

Is she trying to ignore and deny the risks?

495 the birth, that could cause me to be more tense during  
496 labour, which could then lead to more complications.  
497 Because if I can't. What I want to do is be able to relax in  
498 the labour and breathe through it and blah de blah de  
499 blah. But now I think, because I've got that risk. Or that  
500 sense of increased risk in my head. That's affected my  
501 level of fear about the birth. Which I think in itself could  
502 add to complications

503 G: Now that increased fear of risk now is that only been  
504 because of when you've had the scan or/

505 ■ Yeah.

506 G: Was it because I'd mentioned it earlier on. Was it the  
507 scan that/

508 ■ No it/

509 G: made it more real/

510 ■ It's the scans made it more real thinking he's, I've  
511 just got it in my head now he's massive.

Not that the scan has detected a big baby, it is more real now

512 G: (LAUGHS)

513 ■ I'm sure he's not massive, and he's not, there's nothing  
514 to say, the weight of him or whatever is big, I don't know

Her scan has made it all seem more real now

She is now worrying excessively about the birth now that she knows that she has a large baby

The evidence of the scan has now impacted on her perception of risk

515 I've just got it in my head thinking that the births going to  
516 be more complicated. Which may be the case but it may  
517 not be the case but the fact that I think it is, I think makes  
518 it more likely to be complicated. Which I'm no very happy  
519 about, but at the same time I'm happy that they're,  
520 monitoring it, and that if there is a real risk, as in there is a  
521 real concern that maybe the baby won't come out of me  
522 that actually they are aware of that, and it can be more  
523 planned. But I don't know if those are. Real options or not.  
524 I don't know if I'm just telling myself that in my head to  
525 make me feel better. Thinking oh they'll not let me push  
526 that baby out if it's too big. (LAUGHS)  
527 G: (LAUGHS)  
528 ■ But, do they know, I don't know if they know the  
529 weight. Can they tell me what weight they think it is?  
530 G: They can do an estimated weight/  
531 ■ Can they?  
532 G: They probably have done an estimate.  
533 ■ Oh I just don't know.  
534 G: No all right/

Feeling of fear , in  
recognition of the  
complications of  
giving birth to a  
large baby

Happy to  
relinquish control  
of her birth

Realises that there are  
risks now, associated  
with a large baby-  
causing utter turmoil  
with her thoughts

She appears to  
relinquish control of  
her birth to medical  
staff

535 ■ Oh right okay.

536 G: Did they mention?

537 ■ No they never mentioned/

538 G: They can do an estimated weight but there is a margin,

539 there is a margin of error in the estimated weight. But

540 unfortunately a lot, that's where a lot of decisions are

541 made is round about the estimated birth weight/

542 ■ And the other thing she did say, she said, when I

543 was, well I was 33 weeks last week, she said my uterus

544 was measuring 36 weeks/

This is the first indication that she has, that she is measuring larger than her dates

545 G: Right so/

546 ■ So it's bigger/

547 G: It is kind of bi/

548 ■ And it's been, it was like an, an inch, or a centimetre. I

549 think it's been a centimetre longer than my week. And

550 they were saying to me, they were saying, is your dates

551 right? But my dates are, I know my dates are definitely

552 right because I was monitoring it closely.

553 G: How did that make you feel when they said, when even  
554 like abdominally you were measuring 3/

555 ■ Bigger.

556 G: Bigger?

557 ■ Aye that's made me think oh he's bigger and he needs  
558 more room, or/

559 G: Did you start to make connections about being higher  
560 risk with BMI?

561 ■ I also thought as well, because, the other thought that  
562 went through my head was, am I remember the midwife  
563 saying to me at one point as well. Obviously because  
564 she says like, because there is more of me to begin with,  
565 because I've got like fat here anyway and I would have  
566 had, under here I've got fat here. I thought, that must  
567 make it a bit harder for them to get it more accurate, you  
568 know if you had a flat stomach, you'll be able to feel that a  
569 lot easier than through layers of fat. So I guess the margin  
570 of errors/

571 G: In there as well.

572 ■ In there as well. Aye.

Making the connection with her body size , and the difficulties to assess that baby

She is now equating her excess weight with the difficulty that the midwife might have feeling the baby and measuring the fundal height

Recognises the difficulty on the midwives part, measuring the fundal height accurately when she is overweight/obese

Actively seeking information but not from the midwife

573 G: Yes, well we say to midwives, student midwives, it  
574 should roughly correlate with dates, give or take 3  
575 centimetres.

576 ■ Aye. I had read it and that's what I had read, and so  
577 that it never worried me because that's what they were  
578 saying that's like one centimetre out but when she kind  
579 of said 3. I was thinking Oh that sounds a bit much.

She has sourced her own information and been reading up on this.

580 G: How did, how did you feel? Deep down.

Emotional turmoil- panic

581 ■ Just panicky I guess.

panic

582 G: Panicking.

583 ■ It's massive, that's all that kept going through my head,  
584 this baby's massive. He's too big, I kept thinking, he's too  
585 big.

She is starting to really panic now over the size of the baby

586 G: And what about when the met, they tested you for  
587 gestational diabetes?

588 ■ Mmmm.

589 G: Did that increased risk, go through your head again?

590 ■ Yes. Yeah. It was just, and I spoke to my sister about  
591 that and she was saying. Just, Just stuff and I was



She is now starting to share her health /risk concerns with her family

592 thinking as well about. Like after the birth she was saying  
593 they do more heel prick tests, and then you'll be, she's  
594 like, not horribly, but she was saying they'll force you into  
595 feeding him midday. It's, like the hours, make sure you  
596 get this, where in that I was thinking, oh that's horrible, it  
597 just takes the naturalness out of it and I didn't ever want  
598 to be in the kind of, you must feed this, you know I just  
599 thought no, you feed when the babies wanting the food so  
600 that was really putting me off. Thinking, aye I was just  
601 thinking, Oh, well I read that you're more at risk then of  
602 developing, was it type 2/  
603 G: Type 2, uh huh.

Now more aware of the implications of a large baby, particularly on the birth experience and link to type 2 diabetes

The risks are real, realisation of her increased risk, making connections with her own health status

604 ■ Later on I was just thinking, oh god, that's no good for  
605 me. And then I don't actually know if it, I don't think it does  
606 cause diabetes in the baby but I wasn't sure. I don't think  
607 it does. But obviously their, blood sugar will need to be  
608 monitored closely and stuff. So I kind of thought aye, it's  
609 kind of interfering more with a natural/  
610 G: Mmhmm.  
611 ■ Process.  
612 G: Mmhmm.

She is now starting to connect her increased BMI, with her own health status

Making vital connections with her increased BMI and health risks

613 ■ I didn't like the idea of that at all. Or having him taken

614 off me for tests or things like that. I thought no/

615 G: I, I'm assuming you know it's a boy?

616 ■: Yeah it's a boy. Aye, Aye. (LAUGHS)

617 G: (LAUGHS)

618 ■: I found out at the 20 week scan it's a boy.

619 G: (LAUGHS)

620 ■: I was laughing at that I was thinking, oh wait to see it

621 will come out and it'll be a girl. So that'll be the next thing

622 that will happen. I was like, we'll paint it a room blue and

623 then it will be a lassie. But that doesn't actually bother me.

624 I think well, oh if it's a girl and they got it wrong then that's

625 fine. But yes, so I kind of thought. Yeah. And the more it, I

626 don't know if we're kind of. I, I wasn't really thinking about

627 risks for, birth or anything I was more just thinking, like to

628 do with the diabetes specifically, I wasn't thinking about

629 anything to do with that. I was more thinking about, longer

630 term health things for me, and, the immediate kind of

631 concerns there would be for him with his blood sugar.

Now associating the risks of her increased BMI more with health risks to herself/ baby rather than the complications of birth

She appears to be making the long term health connections with her increased BMI

Making the link with increased BMI and long term health implications,

especially diabetes

632 G:What, do you think that, that all of this will make a  
633 difference to you post-natally?  
634 [...]  
635 ■: Once he actually appears?  
636 [...]  
637 G: Does it make you think, what about like beyond being  
638 pregnant?

Accepts that her diet is a problem and she needs to change this

639 ■: I suppose it makes me think, I still think a bit a bit about  
640 my diet. But that's, I'm not sure that's any different to  
641 before I was pregnant. I think my diet was something I  
642 would be thinking wasn't the best anyway. It's something I  
643 know I need to change but. I tend to have it in my head. I.

Recognises that her own diet is an issue

Would definitely ensure that her own baby has a good diet

644 What was I going to say? Something about not. I know  
645 fine well I wouldn't do to him what I would do to myself.

Is aware that her own diet is detrimental to her health

Accepts that what she is doing to herself is risky, wants to protect her son from this

646 Does that make sense?

Accepts that her diet is a concern/ health risks

647 G: Mmhmm. Yeah.

648 ■: Like I'm not, If I fancied a McDonalds I wouldn't go and,  
649 I wouldn't take us both to McDonalds. I would, I wouldn't  
650 do that. I would be feeding him what I know he needs to,  
651 obviously some mums don't believe me but. No I wouldn't/

Sees breastfeeding as doing the best for her baby

652 G: Maybe not. (LAUGHS)  
653 ■: (LAUGHS) I know eh? I, I think I would, I'm very aware  
654 that I want to breastfeed. For as long as I can and do  
655 things like that properly so I think, in terms of looking after  
656 him, no. In terms of looking probably yes, because I think,  
657 well, the thought is as well your second baby is bigger  
658 anyway because they have more room to move about. So  
659 it's making me think about my second pregnancy.

Wants to breast feed her baby for as long as she can

Now that she is aware of the risks, she is starting to think of the implications on a second pregnancy

660 G: How you'd change for your second pregnancy?

Would be prepared to make dietary modifications for her next pregnancy

661 ■: Yeah, thinking maybe, I would try and be a more of a  
662 healthier weight maybe, before I start, whether that, I  
663 don't know whether that'll influence it or not but, I think  
664 Christ am I going to have a 15 pound baby for my next  
665 one (LAUGHS). But I was asking my mum, because she  
666 had the twins, the twins were 7 and 8 pounds. Aye/

Her knowledge now of the risks makes her want to change in preparation for a second pregnancy

667 G: (LAUGHS) That's/

668 ■ So basically she had 15 pound in her.

669 G: That's good weights for twins.

670 ■ Aye for twins. And I think I was, I can't mind I think I  
671 was 7 pound something. I had been asking Danny's mum  
672 what weight was he and he was 8 pound 3.

673 G: So that's/

674 ■ Aye fairly healthy sized babies. But I was thinking I  
675 don't really want to comb, I don't really want to add the 7  
676 pounds and 8 pounds baby's together but I, (LAUGHS) I  
677 suppose it's made me think about my, second pregnancy  
678 more, and thinking, I wouldn't, I wouldn't, I would  
679 hopefully not have as many takeaways but then. You  
680 don't know what your life's going to be like, because you'll  
681 already have a baby but, Aye it's certainly made me think  
682 I want to try and be a bit more of a healthier weight before  
683 I start the next time.

684 G: So do you think starting off in this, in this research  
685 project. Did it plant seeds about whether you, you thought  
686 you were high risk or not at the beginning? Has that  
687 changed now?

688 [...]

689 ■ I think I'm maybe more aware of, how the risk factors  
690 come into play. Even if that had been laid out to me at the

The study has increased her awareness of risk. This has now influenced how she would approach her second pregnancy

She is starting to think more and more about her diet and a second pregnancy

Risk awareness has made her think more and more about her present diet

691 start, which it kind of was, and I, I could read about it  
692 myself. I, I kind of knew what they were saying. But. I  
693 don't know if I just didn't believe it or I just didn't think. I  
694 don't know.

She is stating that she was aware of the risks but was not really sure if she believed them

Is she trying to deny the associated risks ?

695 G: That was you/

696 ■ Aye I don't know. It's hard to, it's hard to think back  
697 now and think about it but, I think definitely, it made, being  
698 part of it I think made me more aware of the risk factors

She was aware of the risks but until she started to experience complications, she did not believe it

699 ■ I think. But, still I think until something happened. I still  
700 just thought, well it's not going to affect me. Something  
701 like that It's not. Yes I know that exists but it's not  
702 necessarily going to happen to me.

It was easier to deny the risks, until it became very real

703 G: So, do you, do you believe that there's a connection  
704 now. That something that you have, that you have had a  
705 scan.

706 ■ Yeah.

707 G: Yeah so you can see a connection now?

Still appears confused ?

708 ■ Yeah. Yeah. I don't know. Yeah. I don't know if I blame  
709 that. More on. My own. I was going to say my own

710 lifestyle but I suppose that's where your BMI comes from

711 is your own (LAUGHS)

712 G: (LAUGHS)

Emotions – self  
blame

713 ■ Lifestyle. But aye I suppose. Rather than, rather than  
714 see it as these were the risk factors. I'm probably thinking  
715 more, what like my role in it, like, like that I should have  
716 been more healthy or something to start off with or, aye  
717 that being, that probably being healthier. I can see the

Is she starting to  
blame herself and  
her lifestyle

Aware of the risks  
associated with  
obesity but is  
weighing up her  
own risks versus  
age

718 benefits of being healthier before you fall pregnant more  
719 than I probably could at the time, at the time I just  
720 probably wanted to get pregnant and knew that I should  
721 be healthy, but the pregnant bit was more important than  
722 the healthy bit. And I think I had to weigh that up as well  
723 with my age. Because I'm, well I'll be 36 next week.

724 G: Mmhmm. So do you, do you see your age more of a  
725 risk than your BMI then?

726 ■ Aye.

She feels that her age puts her at more  
of a risk

727 G: Do You?

She is weighing up and calculating her own  
risks

728 ■ I do, but in a way that, in a way that, I worry that I'll  
729 struggle to get pregnant because I'm older.

730 G: So more a conception risk, Rather/

731 ■ Yeah more a conception risk. So I think part of me kind  
732 of weighed that up because I had lost, like before I got  
733 pregnant. I had lost like, 2 and a half stone, and then I  
734 think I'd put on about a stone again. Maybe in about the  
735 year before, like, as in last, well over last year and the  
736 year before I'd maybe put back on a stone. So I'd lost  
737 about a stone and a half and I think probably I would have  
738 liked to have kept focussing more one that but, but, my  
739 focus changed to getting pregnant and then, aye, I never  
740 really thought about it as much as I thought of what if I  
741 can't get pregnant and that. That plays on my mind for the  
742 second baby as well because I think. I feel like I don't  
743 want to wait years before I try, start trying again because  
744 then I'll be. I'll be 37 before I start trying anyway at the  
745 very earliest. And I don't even think I'm going to want to  
746 try even after a year.

747 G: (LAUGHS)

748 ■ But I think in my head. I probably will, because I think I,  
749 I, feel like every year that goes past. There's more of a  
750 risk that I'm not going to conceive so I think, even though

Talking about her previous weight loss, fertility versus age. Sees this as more of a risk than her weight

Is she implying that she can control her weight if she wants to but cannot control her fertility ?

Age versus her weight



Calculating her own risk status

751 I'm sitting here now saying I'd like to be healthier, I think  
752 that, would overtake again. My age would rule, my age  
753 would

She feels that her age is a far greater risk than her weight poses

754 G: Overtake the, the risk of the higher BMI.

755 ■ So any kind of, if I wanted to lose weight or whatever,  
756 waiting on that would be ruled out by my age or whatever,  
757 I would try and conceive

758 G: Quickly.

759 ■ Aye

760 G: Definitely.

Does not prioritize her weight over her age with regards to the risks

761 ■ Regardless of whether I had managed to lose the  
762 weight because I would think that's more of a risk.

Age present more of a risk to her

763 G: Would it make you, more, more aware though

She is prioritizing her own risks

764 going into your second pregnancy if, if your BMI was still

765 high?

Her increased risk awareness has influenced her thoughts around her diet

766 ■ Yes. Definitely. Definitely. And probably, just now  
767 because I've been more aware of the gestational diabetes  
768 stuff I would probably pay more, even though I've not got  
769 it I'd probably pay more attention to my sugar intake at  
770 times in the day and I probably would, though that's not

She is more aware of the risk of gestational diabetes and would make more of an effort to reduce the sugar intake in her diet now.

More aware of the obesity associated risks now, links to gestational diabetes

771 actually what's happened but because I'm more aware of  
772 it now I'd probably pay more, more attention to that part of  
773 my diet. I think, yeah.

774 G: And you were saying no other health professionals  
775 mentioned you about increased risks or anything like  
776 that? What about when you were, you know just before  
777 your scan. Have you, because you said maybe your  
778 scans changed the way you thought/

779 ■ Mmhmm

780 G: What, what kind of birth choices were you, were you  
781 thinking of? Doing your birth plan, what were your choices  
782 going to be?

783 ■ Well, I had, I've already kind of decided I'm not going to  
784 do a birth plan. Just because, I have a feeling, rightly or  
785 wrongly, that anybody I've ever spoken to, have not,  
786 followed through their birth plan. For, for one reason or  
787 another. Either they've changed their mind, or  
788 something's happened in the labour or the birth that's  
789 changed what happened. So what I kind of decided to do  
790 was just speak through with Danny what I would like to  
791 happen, just so that he knows, for me, when I'm in labour

792 what, what I want to happen. But I kind of just thought I  
793 would, practice the hypno birthing, and the only kind of  
794 choice that I was thinking about was, that I wanted to give  
795 birth, like vaginally and that I would use whatever  
796 painkillers I thought I needed but try and avoid an  
797 epidural. Just because, then, well obviously I thought I  
798 could move around more and that, that's better for  
799 bringing the baby out, and, because of the effects that the  
800 epidural can have on the baby after I thought it might  
801 make it more difficult to initiate breast feeding and stuff so  
802 I kind of thought if I, if I can I want to avoid having an  
803 epidural, but that's, that's all I've kind of planned for, and  
804 now, more in my head now I'm thinking that I'm going to  
805 need an epidural. Just because of the size of him.  
806 (LAUGHS)

Although she does not want to write a birth plan, she does have an idea of what she wants to try in labour

Wants to avoid an epidural but the size of her baby and possible pain of birth has made her change her mind and

Associates the size of her baby with a painful birth

807 G: (LAUGHS) How does that make you feel?  
808 ■ Terri, well, well it doesn't make me terrified, because  
809 actually, I think there's something quite nice about  
810 thinking well it's all going to be numb and I'll not be feeling  
811 anything. (LAUGHS)  
812 G: (LAUGHS)

terrified

Becoming terrified, fearful of birth

Now excessively  
thinking about  
giving birth- fear

813 ■ But, thinking about then, like for the breastfeeding bit  
814 and that after it. The fact that I would be lying down and it  
815 can slow it all up and everything I'm not keen on it at all,  
816 and I think that's why part of me thinks, if it's going to go  
817 down that route I'd maybe rather just have a caesarean.  
818 Rather than have that, those kind of complications with it.  
819 But. It's hard. It's hard to weigh that up. It's hard, hard to  
820 weigh that up.

821 G: It's certainly sort of, made you think now hasn't it!

822 (LAUGHS)

823 ■ All that's in my head now is I'll just have to, I'll just have  
824 to cope with the pain the best way that I can, it's now  
825 made me think about being induced and caesareans and  
826 all that, that I never, I mean obviously she went over it at

The complication of  
a large baby, feels  
like she is losing her  
control over this  
experience

827 the antenatal class but I still thought. These are just  
828 options. I don't really need to consider them, and now I'm  
829 thinking, but I don't know if half of that's just in my own  
830 head. If these are options that are going to be, given to  
831 me or not. I don't know. But yes it's certainly made me  
832 start thinking about it a lot more than what, what would be  
833 the best thing. This thing or this thing and what. You don't  
834 even know if that's going to be your choices. It's just

Starting to think more  
and more about giving  
birth

Thinking more and  
more about the  
choices that has in  
childbirth

Although it is her  
birth, she is starting to  
think does she really  
have any choice in this  
?

Does she want someone  
else to take control ?  
relinquish her control

835 weird, it's very strange. It's like trying to guess something  
836 you don't even know is going to happen. And the other,  
837 the other concern I have now, which I never had before  
838 is that I'm just going to go into labour. I just think, oh he's  
839 just going to come, that's what's going to happen, he's  
840 going to come out of me now because that's him fully  
841 grown. Whereas, in my head before I always thought,  
842 no I'll go to my, due date, or he'll be late. Because that's  
843 what happens with first babies. So I kind of thought. I  
844 wasn't, I wasn't worried about any time I had off my work  
845 before it. I thought I've got plenty of time, and now I'm  
846 more aware that actually no. Babies don't normally come  
847 on, I knew babies don't come on their due dates but, I'm  
848 much more aware of that now. Thinking, no he could  
849 come at any time.

850 G: So it's, it's kind of turned your mind into a turmoil now  
851 hasn't. (LAUGHS)

852 ■ Aye. Absolutely. I'm totally on, thinking through all  
853 these things that could happen. Aye.

854 G: Do you think, anywhere along the line there has been  
855 a missed, a missed opportunity with health professionals

Feeling that she does not know what is going to happen – no control over this

Thinking about the implications of having a large baby. He needs to be born now, he is ready now, fully grown

Realises that birth is imminent

Feeling that she cannot control any of this now. The baby is controlling time of birth

Feeling the loss of control of her own birth

856 to maybe get the message over about increased BMI and  
857 the associated risks?

858 [...]

859 ■ I think there has been opportunities where they could  
860 have said it. What difference it would have made. I don't  
861 know, and part of me thinks, would it just have made me  
862 worried more. Like all the way along. Yeah, would, would  
863 it just have actually made me more. Or, if I had been more

She feels that there has been opportunities where health professionals could have spoken about the risks, they didn't. Although she feels had they discussed the risks then she would have worried more.

Midwives  
restricted time  
with women  
might have  
influenced the  
amount of  
information that  
the midwives  
could give  
reference risks

864 aware of it at the start, I might have, eaten better or,  
865 exercised more, or whatever. Yeah. I don't know. I think  
866 there has been, well I'm saying there has been  
867 opportunities, but actually in the time they've got their  
868 appointments, no I think the systems wrong with that  
869 though I think the system could be better built into the  
870 system. It's funny because I was looking at my, notes the  
871 other day, and just looking like. There's a whole  
872 questionnaires bit about like things that you discussed or  
873 didn't, and I was just looking thinking of all the bits that  
874 she said no to and stuff and I know some of that's  
875 because they give you like a DVD about breast feeding  
876 and things like that. But I think what a shame actually

She feels that the time factor probably reduced the midwives ability to discuss the risks

Missed opportunities for the midwives to discuss risks. Avoided the discussion altogether

Feels she would like more time for discussion with the midwife	877	because; to me it should be the health professional that's	Did not like the idea of a breastfeeding DVD, Midwives should have discussed this
	878	sitting and able to go through all that with you.	
	879	G: Uh huh. Not a DVD.	
	880	Aye not giving you a DVD. Cos I think, it's just about,	
	881	the breast, the whole breast feeding stuff and, I can't mind	
	882	what the other bits were. I can't mind that. But aye, there	
	883	was just big bits and I was thinking that's, that's a bit of a	
Really wanted a relationship with the midwife	884	shame. Thinking that you don't get that face to face. You	Again she feels that time factor restricts what the midwives can discuss
	885	don't get to have a discuss, well you could have a	
	886	discussion if you asked but, I'm, I'm maybe conscious	
	887	because I'm a health professional as well. I think the more	
	888	questions I ask, the more I'm eating into her next	Lack of face to face discussion , when the relationship with the midwife is what matters
	889	appointment (LAUGHS) I'm just, I'm just making her	
	890	more delayed when I can just go and Google it myself	
	891	but. Aye, I suppose it would, I think it would be better	Would have preferred a conversation and relationship with the midwife
	892	speaking about it than just giving, because I've not	
	893	watched the DVD's yet.	
Time factor – forced to self search for information	894	G: So you're more inclined to just go, just go onto the	
	895	internet or something like that and look up information for	
	896	yourself?	
	897	Aye.	Knows how to search the internet for information

898 G: Yeah.

899 ■ Definitely. Definitely. Just other things as well, maybe

900 just kind of, other things like, I suppose knowing things

901 through friends or other people or you know things like

902 they don't, they tell you, I don't know things like, folk will

903 say oh don't use Rennie's if you've got heartburn.

904 Gaviscon's the best thing. But it's actually just because

905 they've not been any trials done with Rennie's so they

906 can't say whether it's safe or not. Things like that I tend to

907 balance up myself so. I took Rennie's before I was

908 pregnant. I still, I take Gaviscon now, sometimes, but I

909 can't, I'm not going to rock up at my work with a bottle of

910 Gaviscon. Going in to do patient groups.

911 G: So you've got to weigh up the risks yourself?

912 ■ Yeah, myself. And I think well, aye, so I, I probably do,

913 a bit more of that myself, than maybe other people, other

914 people would rely on. Or, for example, things like, I've

915 taken the odd ranitidine tablet because I know somebody

916 would go and make an appointment with their GP and

917 discuss that. I feel a bit more able to just decide, no that's

918 the best thing for me just now. But/

Using the internet,  
friends and family to  
assess her own risk

She will construct  
her own risks,  
socially constructs  
her own risks

Socially  
constructing her  
own risks

Balances her  
own risks and  
makes her  
own decisions

Balancing her own risks  
without relying on  
others. Feels that she  
takes more control  
over her own care than  
others.



Lack of time with the midwife ,which makes any meaningful discussion

919 G: And do you think that's because you've got kind of a  
920 health professional background?

921 ■ I do. I think that's what makes the difference with that.  
922 But I still think I would, Aye it would be nice to be able to  
923 discuss these things with your midwife but I just don't  
924 think there's time.

Feels that she would like to discuss things with the midwife but the midwife was too busy

Lack of time to discuss what matters with the midwife

925 G: Time to do it. No. When are you back to the  
926 consultant?

927 ■ I'm back, tomorrow.

928 G: Tomorrow.

929 ■ And then Friday, and I never heard them saying  
930 Tuesday and Friday I just heard them saying twice a  
931 week, but my sister was there with me and she said no  
932 they said a Tuesday and a Friday. So I think now every  
933 Tuesday and Friday I will be at the Royal Infirmary. Until,  
934 whatever happens. Yeah. I think until the growth scan.  
935 And then I think, I do, I'll either be in or out. I think/

936 G: So when's your next growth scan? Are they going to  
937 growth scan you?

938 ■ Aye so it's, they've not give me a date for it but she  
939 said it, I don't know what the junior doctor was going by  
940 some kind of guidelines. She said she was away to check  
941 some, manual or something, because initially she was  
942 saying to me, what did she say to me initially? Initially she  
943 said something like, either there would be no follow up or  
944 like one appointment but she said I'll just go and check  
945 whatever it was, and then, this was the doctor, and then  
946 she came back and she said, no actually we need to see,  
947 It was like a total opposite when she came back and say  
948 no actually we need to monitor you twice a week. So aye.  
949 Tuesday, I think it's a Tuesday and a Friday and then  
950 that's, so last week she said. And every 3 week they'll do  
951 a growth scan. So I/  
952 G: Do you know what it is? I think there has been a,  
953 there's a new study. I think that, and I think that's what the  
954 guidelines are on a new study now. Where any woman  
955 with reduced foetal movement/  
956 ■ This is what they've got to follow.  
957 G: Aye this is what they've got to follow.

She is recalling what happened at the hospital appointment that day. Given conflicting advice

Her concerns about the risks for her baby are different to what is concerning the health professionals

958 ■ Aye. Because I kind of got the impression. They were  
959 more worried about the reduced movements than the size  
960 of him, I think the monitoring more for the reduced  
961 movements. Whereas, I'm more concerned about the  
962 size. (LAUGHS)  
963 G: (LAUGHS)

Health professionals seem more concerned with the reduced fetal movement ,but she is more concerned with the size of her baby.

Reassured with increased technology and closer medical surveillance

964 ■ Aye, Aye totally because I, I could hear his heart, I  
965 wasn't that, the movements didn't bother me so much  
966 because I heard how strong his heart was and I seen  
967 him moving on the ultra sound thing, so I feel happier  
968 about that but they were basically saying, aye they  
969 don't want to miss the baby that's got the reduced  
970 movements for whatever reason. So I kind of think. And  
971 that's a way of thinking, that's the way I thought as well  
972 thinking they're monitoring me for something they're  
973 concerned about that I'm not concerned about. I'm  
974 concerned about something else.

Feels reassured that she has seen him on the scan, health professionals were concerned with the reduced fetal movements but she is not quite sure why

Feel more reassured with closer medical surveillance

She is more concerned with the size of her baby, pre occupied with this

Feels much safer with closer monitoring

975 G: Babies birth weight?  
976 ■ Aye, but, but, but I'm still glad they're monitoring  
977 me.  
978 G: (LAUGHS)

Feels safer being monitored

Curious but  
contradictory in  
what she feels

979 ■ So in some respects I'm thinking, well it's a waste of a  
980 bloody trip twice a week but at the same point I'm dying to  
981 see what the growth scan says in 3 weeks. (LAUGHS) to  
982 see if he's going to be massive.

Contradiction as she  
feels that it is a waste  
of her time going to the  
hospital but at the  
same time she wants to  
know what his growth  
scan is saying

983 G: (LAUGHS)

984 ■ So, aye. Yeah. So aye, tomorrow. So I've got a bit,  
985 aye, I've had you today and then I've got that tomorrow  
986 morning. Patricia tomorrow afternoon and then Friday.  
987 I've got them back up at the Royal and I'm fine.

First time that she has ever  
mentioned the midwife by  
name

988 G: So are there any questions you want to ask me just  
989 now?

There does not appear  
to be a relationship here

990 ■ I don't think so. When, do you see me again before  
991 he's here?

992 G: No. Afterwards

993 ■ After.

994 G: After.

995 ■: Afterwards.

996 G: Afterwards aye. I was going to say once you've had  
997 him/

998 ■: Aye.

999 G: Maybe about 2 weeks later. I'll let you get settled in  
1000 your routine.

1001 ■ Will somebody tell you when I've had him?

1002 G: Well, I'm, I'll probably rely on you to give me. You've  
1003 got my number eh?

1004 ■ Yes. It's in my phone. I do.

1005 G: Aye. Just drop me a text and say you've had him/

1006 ■: He's born/

1007 G: Could you maybe wait until a period after that, give you  
1008 time to/

1009 ■ get my kind of sense (LAUGHS)

1010 G: (LAUGHS) Aye. Get your sense. Give you time to be a  
1011 bit normal.

1012 ■ Just send you a message saying. 13 pounds.

1013 You'll know (LAUGHS)

1014 G: (LAUGHS). I'll wait till maybe, Until maybe 2 weeks  
1015 after you've had the baby and I'll come back out and do  
1016 your, your last interview.

Knows the increased risk of a large baby and this has now become the focus of her pregnancy-living in fear now

She is definitely preoccupied with the size of her baby

The baby's weight appears to be the main focus of concern, from her growth scan

1017 ■: It will be interesting to see what's he's actually/  
1018 G: I've/  
1019 ■: What's going to happen.  
1020 G: I've already had one woman actually who's/  
1021 ■: Have you?  
1022 G: Who's just finished. Aye.  
1023 ■ Very good  
1024 G: She had a boy as well  
1025 ■ Did she? Do you in the antenatal class there was 7  
1026 couples, one for who was having twins. There's only one  
1027 girl that's having a girl. Everybody knew, they're all boys!  
1028 G: They're all boys, aye. (LAUGHS)  
1029 ■ Aye, I don't know what's going on with that. It's very  
1030 strange.  
1031 G: So. It's quite nice to come back and see actually what  
1032 you've had (LAUGHS)  
1033 ■ I know aye. If it's a girl. I'll be repainting a pink room.  
1034 G: Just hearing all your experiences.

1035 ■: Oh I know. Aye.

1036 G: Anything else you want to ask?

1037 ■: No. I don't think so.

1038 G: Right so I'm just going to stop this right now.

Consolidated criteria for reporting qualitative studies (COREQ): 32-item checklist (answers provided in red) Appendix 17

No	Item	Guide questions/description
<b>Domain 1:</b>		
<b>Research team and reflexivity</b>		
Personal Characteristics		
1.	Interviewer/facilitator	Which author/s conducted the interview or focus group? <b>None but BM and JMcA were investigators in the original study. Interviews were performed by a research assistant (RA)</b>
2.	Credentials	What were the researcher's credentials? <i>E.g. PhD, MD</i> <b>N/A</b>
3.	Occupation	What was their occupation at the time of the study? <b>N/A</b>
4.	Gender	Was the researcher male or female? <b>Female</b>
5.	Experience and training	What experience or training did the researcher have? <b>N/A</b>
Relationship with participants		
6.	Relationship established	Was a relationship established prior to study commencement? <b>No</b>
7.	Participant knowledge of the interviewer	What did the participants know about the researcher? <i>e.g. personal goals, reasons for doing the research</i> <b>N/A</b>
8.	Interviewer characteristics	What characteristics were reported about the interviewer/facilitator? <i>e.g. Bias, assumptions, reasons and interests in the research topic</i> <b>N/A</b>
<b>Domain 2: study design</b>		



No	Item	Guide questions/description
Theoretical framework		
9.	Methodological orientation and Theory	What methodological orientation was stated to underpin the study? <i>e.g. grounded theory, discourse analysis, ethnography, phenomenology, content analysis</i> <b>IPA</b>
Participant selection		
10.	Sampling	How were participants selected? <i>e.g. purposive, convenience, consecutive, snowball</i> <b>Purposive sample</b>
11.	Method of approach	How were participants approached? <i>e.g. face-to-face, telephone, mail, email</i> <b>eMAIL</b>
12.	Sample size	How many participants were in the study? <b>N=58</b>
13.	Non-participation	How many people refused to participate or dropped out? Reasons? <b>No info available</b>
Setting		
14.	Setting of data collection	Where was the data collected? <i>e.g. home, clinic, workplace</i> <b>At clinical settings</b>
15.	Presence of non-participants	Was anyone else present besides the participants and researchers? <b>No</b>
16.	Description of sample	What are the important characteristics of the sample? <i>e.g. demographic data, date</i> <b>specialty and setting</b>
Data collection		
17.	Interview guide	Were questions, prompts, guides provided by the authors? Was it pilot tested? <b>Yes</b>
18.	Repeat interviews	Were repeat interviews carried out? If yes, how many? <b>No</b>

No	Item	Guide questions/description
19.	Audio/visual recording	Did the research use audio or visual recording to collect the data? <b>Audio</b>
20.	Field notes	Were field notes made during and/or after the interview or focus group? <b>No</b>
21.	Duration	What was the duration of the interviews or focus group? <b>Up to 1 Hr</b>
22.	Data saturation	Was data saturation discussed? <b>yes</b>
23.	Transcripts returned	Were transcripts returned to participants for comment and/or correction? <b>No</b>
<b>Domain 3: analysis and findings</b>		
Data analysis		
24.	Number of data coders	How many data coders coded the data? <b>3</b>
25.	Description of the coding tree	Did authors provide a description of the coding tree? <b>yes</b>
26.	Derivation of themes	Were themes identified in advance or derived from the data? <b>Derived from data</b>
27.	Software	What software, if applicable, was used to manage the data? <b>None</b>
28.	Participant checking	Did participants provide feedback on the findings? <b>No</b>
Reporting		
29.	Quotations presented	Were participant quotations presented to illustrate the themes / findings? Was each quotation identified? e.g. <i>participant number</i> <b>Yes</b>
30.	Data and findings consistent	Was there consistency between the data presented and the findings? <b>Yes</b>

No	Item	Guide questions/description
31.	Clarity of major themes	Were major themes clearly presented in the findings? <b>Yes</b>
32.	Clarity of minor themes	Is there a description of diverse cases or discussion of minor themes? <b>No deviant or negative cases were found</b>

## Appendix 18 Dissemination Strategy

	Poster Presentations	
May 30 <sup>th</sup> 2016	Edinburgh Napier Postgraduate Research Conference	“Labelled high risk “Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>
15th June 2106	Edinburgh Napier University Research Conference	Labelled high risk “Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>
Sep 2016 conference	Maternity Mother and Baby -Manchester – Focus on Public Health	Labelled high risk “Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>
March 2016	Toronto Canada, International Confederation of Midwives Conference	Labelled high risk “Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>

Year of Study	Date of Conference	Form of Presentation	Title of Presentation
Year 1 Edinburgh Napier University Postgraduate Conference	26.3.15	Seminar Presentation	Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>
Year 2 Health & Social Inequalities UWS Paisley	29.5.15	Seminar Presentation	Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>
Year 3 Edinburgh Napier University	20.4.16	Seminar – Presentation	Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>
Year 3 Maternity Mother and Baby Sep 2016 conference – Focus on Public Health	27.9.16	Seminar Presentation	Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>
Glasgow Caledonian University	19.5.17	Seminar Presentation	Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>

HEAVA Switzerland	29.8.17	Seminar Presentation	Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>
Division of Health Psychology Annual Conference Newcastle	6.9.18	Seminar Presentation	Exploring perception of risk during childbirth in women with an increased BMI > 35kg/m <sup>2</sup>