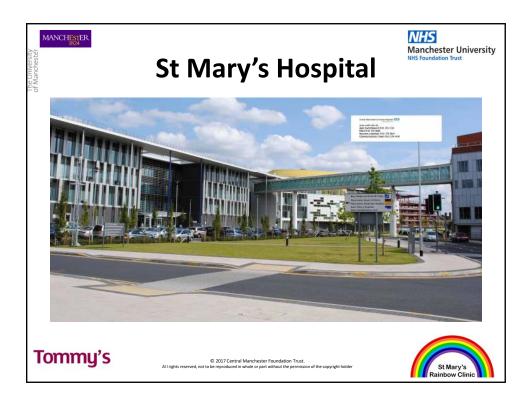


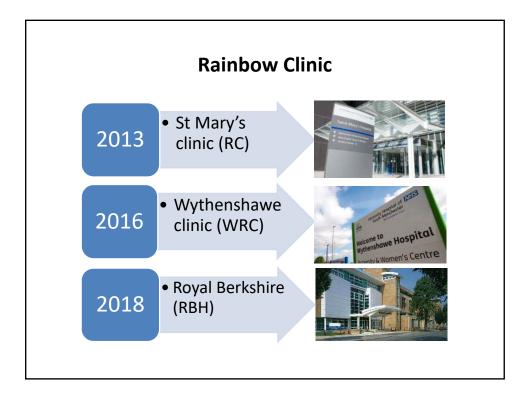


Improving Care in Pregnancies After Stillbirth – Evaluating The Rainbow Clinic

Louise Stephens
Lead Midwife, St Mary's Rainbow Clinic
Manchester, England

Tommy's





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Risk factors and Stillbirth



The majority of stillbirths occur in women with no apparent risk factors (81%)

- Majority confer moderately increased risk
 - Advanced maternal age (>40) (1.6 3.6x)
 - Diabetes (2.7x), Hypertension (2.0x)
 - Cigarette smoking (1.3-1.6x), Alcohol >5u/wk (2-3x)
 - Reduced Fetal Movements (2-3x)
 - Small for Gestational Age (19.8x)
 - Previous Stillbirth (2-10x)
 - Meta-analysis 4.7x Lamont et al. BMJ 2015

Salihu et al. J Obs Gyn Res 2008, Reddy et al. Obstet Gynecol 2010, Heazell and Froen, J Obs Gyn 2005, Kesmodel et al. Am J Epidemiol 2002, McCowan et al. ANZJOG 2007, Gardosi et al. BMJ ,2013.









Complications in subsequent pregnancy

- Black et al. BJOG 2008
- Grampian region of Scotland
- Women with prior SB (n = 364) & live birth (n = 33,715)
- Women with previous SB
 - Increased risk of pre-eclampsia (OR 3.1, 95% CI 1.7-5.7)
 - Prematurity (OR 2.8, 95% CI 1.9-4.2)
 - -Low birthweight (OR 2.8, 95% CI 1.7-4.5)
 - Placental abruption (OR 9.4, 95% CI 4.5-19.7)
 - Induction of labour (OR 3.2, 95% CI 2.4-4.2)







What are women's experiences in subsequent pregnancies?

DOI: 10.1111/1471-0528.12656

Systematic review

Parents' experiences and expectations of care in pregnancy after stillbirth or neonatal death: a metasynthesis

TA Mills, a C Ricklesford, A Cooke, AEP Heazell, b, M Whitworth, b, T Lavender

* School of Nursing, Midwifery and Social Work, The University of Manchester, ^h Central Manchester University Hospitals NHS Trust, ^c Maternal and Fetal Health Research Group, Institute of Human Development, The University of Manchester, Manchester Academic H Sciences Centre, Manchester, UK

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Building, Oxford Road, Manchester, M13 9PL, UK. Email tracey.mills@manchester.ac.uk

Accepted 6 December 2013. Published Online 4 March 2014.

Background Pregnancy after perinatal death is characterised by

Main results Fourteen studies were included in the synthesis,









Care in Pregnancies After Stillbirth – International HIC Perspective

- Wojcieszek et al. BJOG 2016 2716 parents, from 40 high- and middle-income countries
- The majority (66%) of parents conceived within 1 year
- Large variation in care, but additional antenatal visits/scans were provided for 67% and 70% of all parents.
- Care addressing psychosocial needs less frequent.
- Parents whose stillbirth occurred ≥ 30 weeks more likely to receive additional care, particularly the option for early delivery after 37 weeks.
- 47–63% of all parents felt elements of quality, respectful care were consistently applied, e.g spending time with parents and involvement in decision-making.



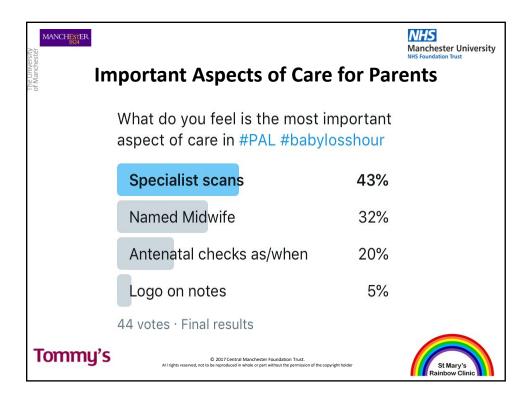
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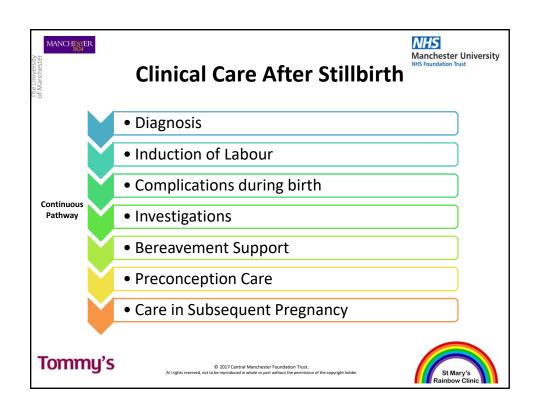
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MANCHESTER NHS **Manchester University** Table 4. Quality, respectful care overall and by geographic region Western Northern America (N = 371) Europe (N = 241) America Ireland (N = 2716)(N = 334)(N = 293)(N = 526)Were you given the information you needed? 140 (53.8) 229 (43.5) Did your care providers spend er ugh time with 139 (53.5) 76 (29.2) 1276 (47.0) 714 (26.3) 178 (53.3) 84 (25.1) 235 (34.2) 126 (52.3) 239 (45.4) Did your care providers involve you in decision aking about 1391 (51.2) 184 (55.1) 282 (41) 141 (58.5) 177 (47.7) 194 (66.2) 254 (48.3) Most of the time 691 (25.4) 85 (25.4) 65 (25) Did your care providers talk to you in a way you could understand? 351 (51) 303 (57.6) 1622 (59.7) 683 (25.1) 203 (60.8) 90 (26.9) Most of the time 60 (23.1) 201 (29.2) 56 (23.2) 137 (26) ders listen to you? 1443 (53.1) 19 195 (58.4) 166 (63.8) 297 (43.2) Most of the time 640 (23.6) 79 (23.7) 51 (19.6) 83 (22.4) 50 (17.1) 143 (27.2) Most of the time 601 (22.1) 69 (20.7) 50 (19.2) 124 (23.6) 580 (21.4) 75 (22.5) 43 (16.5) 127 (24.1) Data for 'Other' geographic region (n = 3) not shown in regional breakdown. Wojcieszek et al. BJOG 2016





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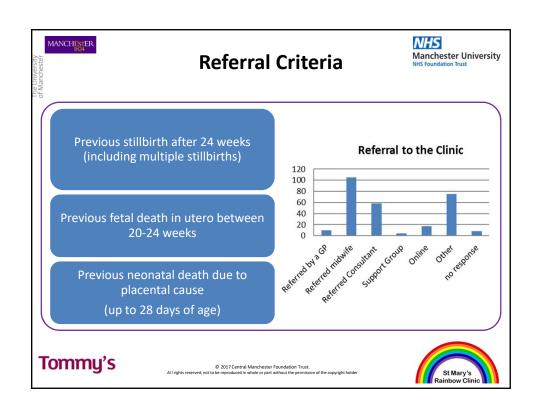
Manchester University NHS Foundation Trust

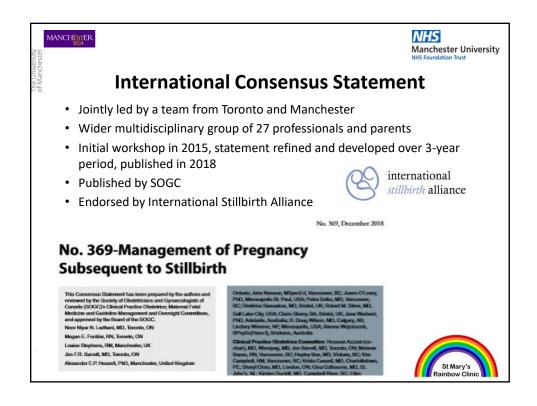
What is Rainbow Clinic?

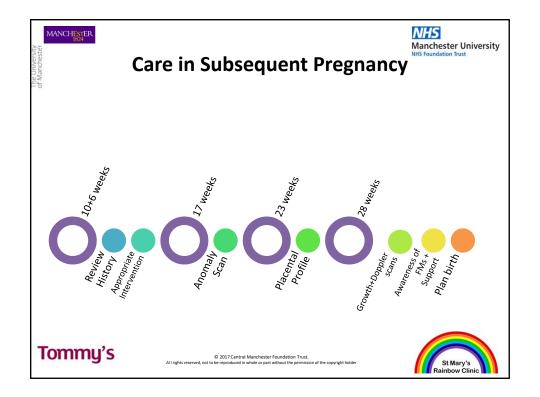
- Multidisciplinary Specialist antenatal service
- Consultant Led
 - Additional midwifery Support (Research MW/MUP & Bereavement MW)
 - · Continuity of Care/Carers
 - · Directed investigations
- Women seen at 23 weeks for placental profile scan
- Shared care with relevant services
 - Diabetes / Hypertension Clinic

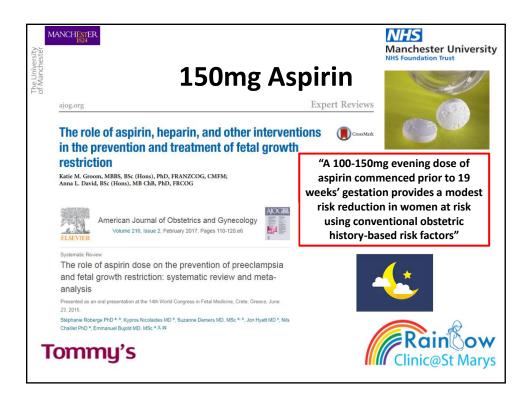






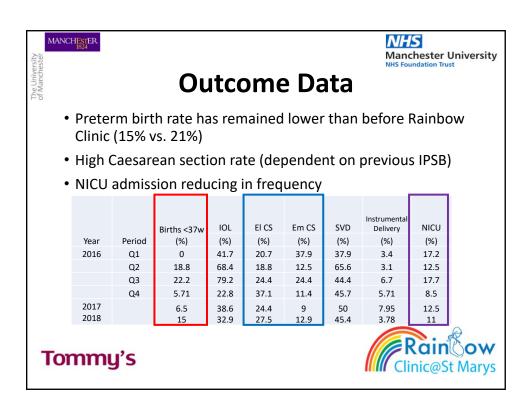














The Rainbow Clinic Study Aims



To explore pregnancy, labour, postnatal experiences and outcomes of women attending the Rainbow Clinic and to assess the wider impact of the service



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Objectives



- Gain insight into women's experiences of attending the Rainbow Clinic, explore views on the current provision of care and desired aspects of care that enhance patient experience.
- Understand which factors facilitate and prevent effective care.
- Assess the psychosocial well-being of women attending the clinic.
- Use the study findings to develop a user driven model of care, which will inform the development of services in the UK / globally.









Study Criteria

• Inclusion Criteria:

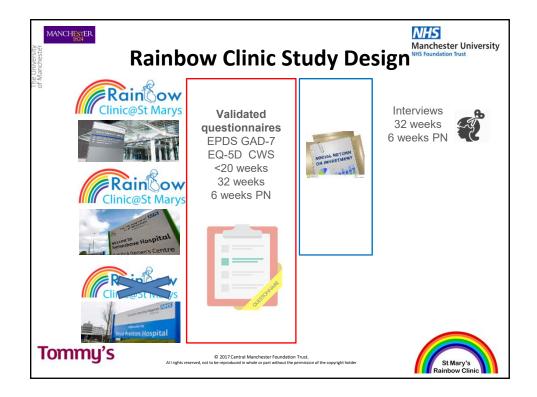
- Women who have had prior stillbirth, neonatal death or late termination of pregnancy
- Women who are currently pregnant
- Partners of women who attended the Rainbow clinic

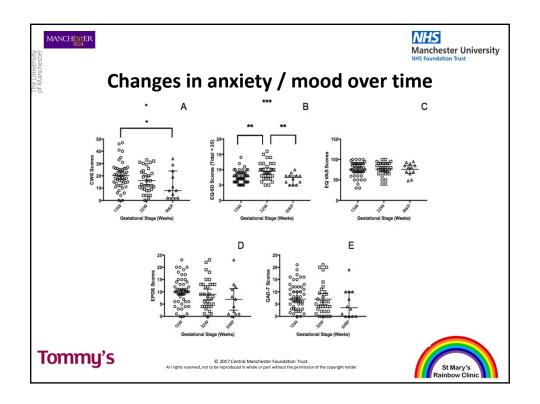
• Exclusion Criteria

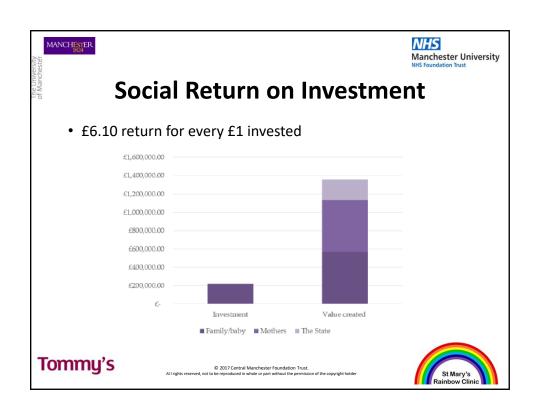
- Less than 16 years of age
- Anyone who lacks capacity to consent
- Women who have been diagnosed with pregnancy complications and have received treatment for an acute mental health issue in this pregnancy















Qualitative feedback

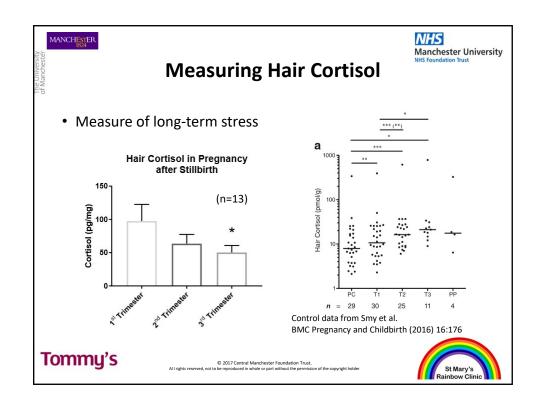
"I can't put financial value to what Rainbow Clinic provides. It is an emotional value"

"My best night's sleep is on a clinic night"

"Because of Rainbow Clinic, I have the courage to try for another baby"





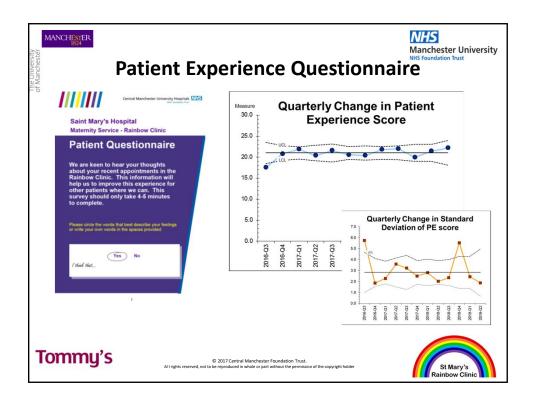


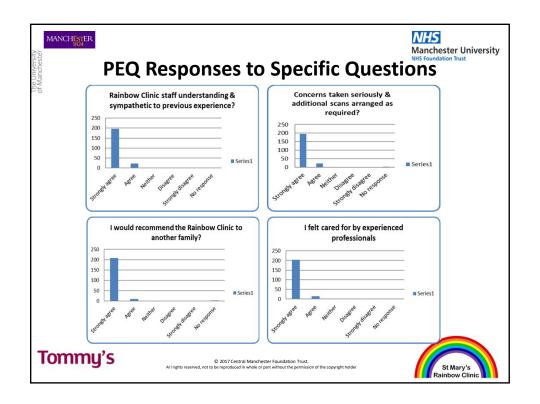


- Application of various scales to pregnancy after loss demonstrates changes in maternal mental state over time, usually with least symptoms in postpartum period
- Uncertainty over which scales / assessment tools are best to use in this context
- Findings suggest that a dedicated service contributes to a reduction in anxiety and improved experience









Qualitative Data - Experience



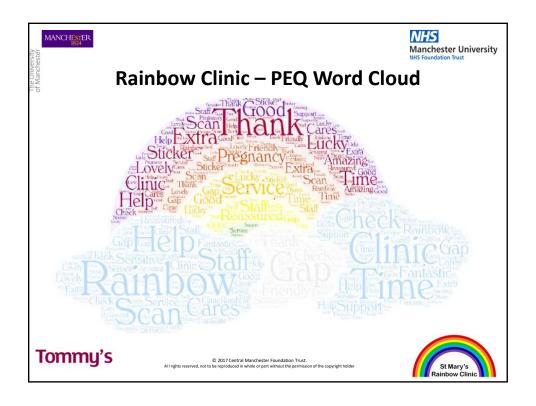
"I would recommend the Rainbow Clinic without any hesitation. This pregnancy has been tough but it would have been so much more difficult without the support and expertise of the Rainbow Clinic."

"I would recommend the Rainbow Clinic to another family. The midwife and doc have been lovely and help me after the loss of our little boy."

"Feels like there should be one in every hospital."









Conclusions



- Prior stillbirth is a risk factor for a second stillbirth and other adverse outcomes
- Rainbow Clinic Model addresses parents' needs in a feasible and economically viable way
- · Further studies are needed
 - Interpret information from PM + placental exam
 - Inform clinical practice / change management
 - Specific conditions

Tommy's



