

Statistical analysis plan, babies in tune

For quantitative data collected from validated scales, means and standard deviations will be reported for all measures assessed pre intervention and post intervention to descriptively quantify change over time. Paired samples t-tests will be run on pre and post intervention measures to assess predicted improvements over time. Between subjects t-tests will also be conducted on post intervention measures across intervention arms to assess the respective effectiveness of the different treatment arms. A repeated measures ANOVA will be conducted with treatment condition as the independent variable (treatment as usual, music intervention, peer support, and health education), with frequency of engagement, perceived impact on infant symptoms, depression, and anxiety as dependent variables. Quantitative data will be analysed in SPSS version 24.

For focus group data, thematic analysis (Braun & Clarke, 2006) will be conducted on transcripts from each intervention arm, which will then be compared across groups. The 'treatment as usual' focus group analysis will feed into a service evaluation at Alder Hey. Qualitative data will be transcribed and analysed in NVivo 12. To analyse the peer support WhatsApp group (which spanned all 6 weeks of the intervention arm), a conversation analysis will be conducted (Schegloff, 2007; Wilkinson & Kitzinger, 2017).