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Reaching women with perinatal mental illness at the booking-in appointment

Abstract

At present the existing booking-in process, as regards to highlighting and diagnosing susceptibility to mental health conditions, has limited suitability. There is a possible future positive gain from early detection of mental ill health at this antenatal stage. The booking-in appointment offers a unique opportunity, early in pregnancy that could be more widely used as a point of detection, awareness and prevention of illness in the perinatal period. A more robust section of this appointment that includes both focused awareness of prior and current mental health concerns as well as the stigma attached to these conditions would be helpful for women. This may help to provide a much earlier detection of such conditions, allowing women to get much needed treatment prior to delivery. Later detection has inherent difficulties due to the huge pressures on women occurring naturally in the postnatal period, when time becomes a luxury that many women simply do not have. Also, the costs to the mother, the baby, the family and the economic costs to society, are considerable and an early, integrated detection and care system can help to ameliorate these costs. The postnatal period may not be the most timely and cost effective period for treatment and for some women this may be too late for them, with the harm already done to themselves, their baby and their family. There is a necessity for

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2
3 research to assess the efficacy of such a strategy. This would need to include the
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5 cost to train the midwives to deliver this additional service, and the
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7 consideration of suitable treatment options at the antenatal stage using in-depth
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9 psychotherapy. There is research evidence to show that women in the perinatal
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11 period would prefer psychological therapy rather than psychotropic medication
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13 due to concerns for the welfare of their baby. The concerns women have
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15 regarding medication at this point in the perinatal period need to be upheld and
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17 listened to. This may help to reduce the high levels of attrition within treatment
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19 programmes currently running.
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24 25 26 **Introduction**

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30 Many women suffer from mental health conditions in either the antenatal or
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32 postnatal period. Until recently, such conditions were thought to occur mostly in
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34 the postnatal period. However, there is now a greater recognition that mental
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36 illness can often begin in pregnancy, with many women suffering from some sort
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38 of mental health issue in the antenatal period (Glover & O'Connor, 2002).
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40 Postnatal depression is described by the medical profession as one of the most
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42 common forms of mental health conditions, and indeed complications of
43
44 childbirth (Robertson, Celasun & Stewart, 2003). Perinatal mental health is
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46 recognised by the World Health Organization as a major public health issue
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48 (Rahman et al., 2013; WHO, 2008), and it still remains a leading cause of
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50 maternal death in pregnancy and the first year after birth (MBRRACE – UK,
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52 2016). There are also many women who enter pregnancy with a pre-existing
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54 mental health diagnosis, and around half of these women will relapse at some
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3 point within the perinatal period (Cohen et al., 2006). This number is likely to
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5 increase if these women choose to discontinue their medication during their
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7 pregnancy and post birth (Viguera et al., 2000).
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11 It is known that depression in pregnancy is one of the strongest predictors of
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13 postnatal depression (Milgrom et al, 2008; O'Hara & Swain, 1996). However,
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15 the scope of mental health issues is poorly recognised at the antenatal stage.
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17 There has been a great deal of research into what is termed medically as
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19 postnatal depression, with the Cochrane Database of Systematic Reviews
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21 estimating that this specific mental health condition affects between 10% and
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23 15% of women in the UK (Dennis and Hodnett, 2007). Yet statistics for anxiety
24
25 and stress in the perinatal period are virtually non-existent. Rubertsson et al
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27 found that 15% of women report anxiety in the antenatal period (Rubertsson et
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29 al., 2014). Two separate studies by Faisal-Curry and Menzes, and also Britton
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31 state the figure to be 24-45% over the entire perinatal period (Britton, 2008;
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33 Faisal-Curry & Menzes, 2007). These statistics may be misleading as they only
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35 encompass women who have sought medical help for their condition. It is
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37 known that many women do not seek medical help, due to the stigma they
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39 perceive, and also due to fear that they might be judged as a poor mother and
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41 therefore be at risk of losing their baby.
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51 Yet the consequences of perinatal mental health are great and can cause long
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53 term effects on the mother (Glover & O'Connor, 2002), and infant (Agnafors et
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55 al., 2013; Deave et al., 2008; Field et al., 2010; Glover, 2014), with an increased
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57 likelihood of the child developing depression at some point in their life (Lester et
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3 al., 2013, p.556). Other consequences are complications such as low birth
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5 weight and preterm birth (Copper et al., 1996; Drewett et al, 2004; Field et al.,
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7 2004; Orr, James & Blackmore, 2002; Rahman et al, 2004), impaired cognitive
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9 development, symptoms of attention deficit hyperactivity disorder and
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11 emotional problems (Conroy et al., 2012; Glover, 2014; Kingston & Tough, 2014;
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13 Waters et al., 2014;), impaired maternal-foetal attachment (Lindgren, 2001),
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15 mother-infant interactions (Pearson et al., 2012) as well as trans-generational
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17 changes (Kaplan et al., 2013). There are considerable costs to the family
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19 affected, as well as economic consequences to society at large with recent
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21 research attributing around £6.6 billion per annum in economic costs to the
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23 United Kingdom (Bauer, et al., 2016). Research on intervention strategies is
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25 therefore needed, as well as the most appropriate and cost-effective time point
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27 for suitable intervention.
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35 Several studies have also shown that women at most risk of mental illness during
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37 the perinatal period are those with a history of previous psychiatric illness
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39 (Coble et al., 1994; Kendell, Chalmers, & Platz, 1987; Leight et al., 2010). It is
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41 possible that women who have suffered some kind of mental health issue, such
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43 as depression, stress and/or anxiety prior to their pregnancy, as well as some
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45 kind of life trauma, may well be at risk of mental ill health during the perinatal
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47 period. More research needs to be done to ascertain direct causal factors, and
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49 whether prior history does in fact lead to perinatal mental health as well as the
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51 percentages of risk involved.
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Identifying Women at Risk

Identifying women at risk, however, seems to be posing a difficulty in the medical profession. Research shows that as many as half of all cases of perinatal depression and anxiety may well be overlooked or unrecognised in the medical profession and left untreated (Bonari et al., 2004; Glover, 2014, p25). Midwives can play a really important part in identifying and referring women with mental health issues in pregnancy and the puerperium, although they may need more in-depth training for this than exists at present within their standard training. Midwives are the most likely medical professionals to have the greatest contact with women during pregnancy and immediately post birth. It is midwives who perform the booking-in appointment and they are in a unique position to both recognise the symptoms and to sign-post women for treatment during the earlier stages of pregnancy. However, to do this effectively they need more support. In a survey of midwives, 68% felt ill-equipped to identify and detect perinatal mental illness (Ross-Davie et al., 2006). Yet 90% of midwives said that psychological care was a core part of their public health role (Ross-Davie et al., 2006). Midwives receive little education on caring for women with mental health problems (McCauley et al, 2011) and as such have reported feeling unconfident in assessing such women and referring them on (Phillips & Thomas, 2015). In a recent article (Noonan et al, 2017) midwives stated their knowledge on depression and anxiety as higher than severe mental health problems such as bipolar disorder, post-traumatic stress disorder and schizophrenia (Buist et al, 2006; Hauck et al., 2015; Jones et al, 2011). The same research concluded that limited knowledge and skills base, as well as a lack of referral options and the

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2
3 requirements of on-going educational and organisational support led to
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5 constraints in the care that midwives can give in perinatal mental health (Noonan
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7 et al., 2017).
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11 Added to this there is also evidence that few women seek treatment in the
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13 antenatal period. In particular, Andersson et al state statistics as low as 5% of
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15 pregnant women with a mental health disorder undergoing
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17 psychopharmacological or psychotherapeutic treatment (Andersson et al., 2003).
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19 This may be due to symptoms being misinterpreted by midwives and doctors
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21 and it may be due to a lack of treatment possibilities considered safe for mother
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23 and fetus, as well as competing medical demands of work, family commitments
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25 and fatigue, for example (Vesga-Lopez et al., 2008). Those women who fall into
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27 the 'vulnerable' category, such as those who might have a personal or familial
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29 history of bipolar affective disorder, schizophrenia, or severe depression are
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31 most likely to be already known to the medical profession as a whole due to their
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33 past history. However, what about those other women, who may have suffered
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35 some mental health issue at some point in time during their history, and may
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37 have chosen not to seek help due to stigma or silencing. Those women are
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39 susceptible to becoming ill in the perinatal period. Yet would fall under the
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41 medical radar and remain unrecognised.
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51 In England and Wales NICE recommend the extended Whooley questions
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53 (Whooley et al., 1997) to be used at booking-in to identify women at risk.
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55 However, there is concern that these are not sufficiently sensitive or provide a
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57 positive predictive value to be used as an assessment tool (Topiwala et al., 2012).
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3 NICE also advise the additional use of the Arroll 'help' question (Arroll et al.,
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5 2003) in order to incorporate a more self-selecting process for women who are
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7 initially identified using the Whooley questions. However, research by Darwin
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9 et al., found documentation of routine mental health assessments at the booking-
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11 in appointment was inconsistent, with little monitoring of a woman's symptoms
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13 even when identified as at risk at this point (Darwin et al., 2014). These
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15 researchers believe their findings reflect a gap between 'best practice' and
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17 'actual practice' (e21) and stress that women with mild to moderate symptoms
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19 in their research were not deemed unwell enough to receive specialist care.
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21 They also cited "mismanagement of mental health needs, and both poor
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23 communication with patients and between health professionals" (e21) as well as
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25 "mental health assessment (being) introduced without adequate resources for
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27 consistently responding to those women whose needs were identified" (e22)
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29 (Darwin et al., 2014). Further research by the team in 2016 found that the
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31 Whooley questions were not as accurate as the EPDS in identifying women with
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33 depression, the Whooley questions failing to diagnose half of the possible cases
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35 of depression identified by the EPDS. Their research also discovered that
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37 reliance on the Arroll 'help' item may be misguided as in their research this
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39 question missed nine in ten possible cases identified using the EPDS (Darwin et
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41 al., 2016).

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50 Qualitative research into the experiences of those women previously diagnosed
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52 with a mental illness at the booking-in stage also showed a lack of specialist
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54 knowledge around mental health disorders within midwifery, that would be
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56 facilitated by adequate training (Phillips & Thomas, 2015). This research also
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2
3 highlighted a lack in the knowledge and skillset of GP's around mental health,
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5 and in particular perinatal mental illness and its impact on pregnancy and
6
7 childbirth (p756). Clearly there would seem to be a gap both in knowledge
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9 within the medical profession, particularly within the professions who are
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11 directly in contact with women throughout their pregnancy and during the
12
13 postnatal period. If conservative estimates stand at 10-15% of all women
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15 suffering from depression in the postnatal period alone, there would seem to be
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17 an absolute need for all midwives and doctors to have a good, clear knowledge of
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19 perinatal mental health conditions and care pathways for these women to access
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21 appropriate care.
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28 **Appropriate Care Pathways**

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32 There would seem to be a gap in funding for appropriate care pathways,
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34 particularly in the UK. If the annual cost to the UK economy of perinatal anxiety
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36 and depression is in the billions, it would seem appropriate to identify women at
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38 the earliest stage possible and put in place suitable treatment options, with the
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40 expectation of reducing the longevity of the condition and reducing the cost to
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42 the economy. More importantly for the women involved, the reduction in mental
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44 ill health and all that this would bring for the infant and family involved, as well
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46 as for the woman herself, the benefits may be substantial.
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53 In 2008, in recognition of the high rate of maternal suicide, Australia
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55 implemented the *National Perinatal Depression Plan (NPDP)* (Australian
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57 Government Department of Health and Ageing, 2008) to form a cohesive,
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2
3 influential and wide-ranging response to perinatal anxiety and depression
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5 nationwide. This plan has wide-ranging goals including a more robust and
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7 comprehensive system of psychosocial assessment of women, education and
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9 training programme of health professionals and finally a robust system of care
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11 pathways to provide follow-up support and treatment for those women
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13 diagnosed with perinatal mental health difficulties.
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19 Research also shows that psychotherapy would be a more preferable treatment
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21 option for women during pregnancy and in particular whilst breastfeeding, due
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23 to the lack of risk which is involved in medication (Fitelsen et al., 2011; Kim et al.,
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25 2011; Pearlstein et al., 2006). It is also a widely researched type of therapy for
26
27 adult mental health, in particular depression, with effective results. It is a
28
29 possible treatment strategy that may fill the gap recognised during the survey
30
31 carried out by the National Society of Prevention of Cruelty to Children (NSPCC).
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33 This piece of research identified that in the UK, 64% of Primary Care Trusts do
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35 not have a perinatal mental health strategy, and 73% of NHS maternity services
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37 do not have a specialist mental health midwife. It also discovered that 50% of
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39 Mental Health Trusts do not have a perinatal mental health service with a
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41 specialist psychiatrist (Hogg, 2013).
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48 **Where next?**

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53 At present, the future for women in the perinatal period with mental health
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55 conditions looks bleak. In 2016 the previous Prime Minister, David Cameron,
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pledged £290 million to help new and expectant mums with poor mental health (Gov. UK, 2016). This does not seem to have materialised to any great extent, as yet, probably due to him stepping down shortly afterwards. It would appear that there continues to be a lack of awareness and care for perinatal mental health, shown by the recent report 'Every mother must get the help they need' by the Royal College of Midwives (RCM, 2017). This report came from the detailed analysis of the comments from the Change.org petition, set up by Lucie Holland, after her sister's suicide due to perinatal mental ill health. Lucie Holland wanted to highlight the urgent need for better awareness and care within perinatal mental health. Within this research there were a set of themes that stood out from the 6,989 comments left on the petition: a lack of awareness about perinatal mental illness, the stigma and misunderstanding about maternal mental health and the patchy and insufficient specialist care, as well as the precarious outlook of NHS mental healthcare (RCM, 2017). The conclusion of this research was that maternal mental health care in England is in urgent need of attention. After the petition, the Royal College of Obstetricians and Gynaecologists then performed their own research on 2,200 women (RCOG, 2017). This research showed that there was still a need for a reduction in the stigma of maternal mental health, both within society and within the healthcare services.

For change to begin it has to occur from the grassroots. Midwives are in a 'pivotal position' due to their frequent input during the perinatal period (Sanger et al., 2016) and could provide a more robust and thorough detection of both

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3 prior and current mental health conditions. This would most usefully occur at
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5 the booking-in appointment, and could continue throughout the woman's
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7 pregnancy, helping to detect those cases, which at present might be missed or
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9 overlooked. Midwives would be in a position to refer women for both
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11 preventative care and treatment, within an integrated and family-focused care
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13 system at a particularly opportune time when women can most benefit, within
14
15 the antenatal period, prior to birth. A more robust training that incorporates
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17 perinatal mental health at its forefront, in order to increase awareness and
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19 knowledge as well as to help reduce stigma within the healthcare services could
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21 really enhance the care these women receive and help these women to help
22
23 themselves, something that most women would want to be able to do. Research
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25 is needed to assess the efficacy of enhancing the training of midwives to include
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27 a more robust section on perinatal mental health, as well as the benefits to be
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29 derived from enhancing the booking-in process and providing midwives with the
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31 necessary ability and information to signpost women for suitable treatment.
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