onset manic or affective psychosis (Dias and Jones, 2016), usually within 2 weeks after childbirth (Norhayati et al, 2015). This may ap with depression and often fluctuates before full

ostpartum (or puerperal) psychosis is a

severe mood disorder characterised by acute

childbirth (Norhayati et al, 2015). This may overlap with depression and often fluctuates before full recovery is achieved (Dias and Jones, 2016). Symptoms include agitation, insomnia, and thought processes that are eccentric, deviated and disorganised, with delusions and hallucinations, the content of which revolves around the neonate's safety (VanderKruik et al, 2017). Postpartum psychosis is considered a psychiatric emergency due to its high risk of suicide and infanticide (Nahar et al, 2017). It also increases the risk of later developing non-gestational psychosis (particularly bipolar disorder) and postpartum psychosis after a subsequent pregnancy (VanderKruik et al, 2017). It is the most severe mental illness of the perinatal period, defined as the period between pregnancy and 1 year after the birth (Dias and

With an incidence rate of 1:1000 births (Tinkelman et al, 2017) and the reduced capacity of women to consent, conducting research and collecting data is challenging (Davies, 2017). Postpartum psychosis aetiology therefore remains poorly understood; however, it is thought that a reduction in oestrogen levels after giving birth and/or increased endocrine sensitivity may be a possible cause (Davies, 2017).

This article will explore a case of postpartum psychosis, with particular focus on care of the woman and inclusion of her partner. This will incorporate a critical appraisal of the role of the midwife and the multidisciplinary team, including mental health professionals. Recommendations for improved care will follow, before a conclusion of the points made and reflective questions are presented. All details are anonymised for patient confidentiality.

Case study

Jones, 2016).

Sarah was a young woman who had a forceps delivery at 41 weeks+4 days for failure to progress, which accompanied liquor with thin meconium and an estimated blood loss of 500 ml. Her male infant was born healthy with no complications, and remained with her.

She was recorded as low-risk at booking and was taking ferrous fumarate for pre-existing anaemia. She had

Abstract

Postpartum (or puerperal) psychosis is an acute mood disorder requiring close specialist care. It is a disorder that is rare and poorly understood, but has devastating consequences. This work retrospectively describes the case study of a young woman who suffered postpartum psychosis following the birth of her first child. A critical appraisal of the care received follows this, focusing specifically on the postnatal period when she was most affected. It was found that critical information was not unearthed at the initial booking appointment, nor were her presenting symptoms recognised in a timely manner; detailing a need for greater training among midwives and care givers regarding early recognition and referral for postpartum psychosis.

Keywords

Postpartum psychosis | Puerperal psychosis | Perinatal mental health | Mental health nursing | Mood disorder

no personal or family history of mental illness; however, a member from the mental health team later noted that she had a brother with severe learning disabilities and that she had a complicated housing situation.

Although she was employed as a health professional and spoke good English, Sarah had an interpreter at booking. Her parents and family, with whom she communicated often, remained in her home country after her migration several years ago. Her husband spoke much less English and required interpreting assistance.

Antenatally, small symphysio-fundal height measurements, and an episode of reduced fetal movements caused her anxiety. After giving birth, she was discharged to community midwife care on day 1. At day 11 the midwife noticed Sarah's strange behavioural change and advised hospital attendance but she declined. One day later, her husband brought her to A&E as she presented with confusion, disorientation and fever.

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Sarah was then seen by a member of the perinatal mental health team who suspected a psychotic episode, and liaised with specialist perinatal mental health midwives and obstetricians as there was some debate over which pathway should be used for treatment. Sarah was admitted to the postnatal ward, treated with antibiotics and paroxetine, until she was later transferred to a mother and baby unit (MBU) on day 24.

Literature and discussion

Postpartum psychosis includes psychoses that occur within the postpartum period (de Witte et al, 2018). This can be devastating to the woman and her family (Nahar et al, 2017), due to its occurrence at a crucial time in a family's life (Doucet et al, 2012). There is an associated high risk but rare incidence of suicide, filicide or infanticide (Degner, 2017). Women are also noted to have a reduced relatability to the infant (Doucet et al, 2012). As a result of these risks, the woman's partner can often be overwhelmed, particularly if the postpartum psychosis is not well understood, which can lead to marital disruption and can affect the parent-infant relationship (Wyatt et al, 2015).

Role of the midwife

The midwife is key in detecting deviations from the norm and making appropriate timely referrals to relevant specialists (Cantwell et al, 2017). This leads to effective multidisciplinary team input by way of co-operative interprofessional communication (Murray-Davis et al, 2011). The Nursing and Midwifery Council (NMC) Code (NMC, 2018) concurs, stipulating the importance of prioritising the patient and protecting safety while providing sensitive, compassionate care. Midwives have a pivotal role in advocating for the woman's wishes and being a point of contact for safety, support and continuity, particularly in cases of complex social and mental health (Bayrampour et al, 2018).

An example of ineffective recognition of mental decline is when Sarah's community midwife visited her at home on day 11. The midwife encountered Sarah agitated and restless, while expressing distorted thoughts and anxiety about 'overheating' her baby due to a fever she believed she had, particularly as she was breastfeeding. The midwife documented the strange behaviour and recorded her temperature as 'no abnormalities detected'. Sarah was advised to go to hospital, which she declined, but the midwife failed to escalate the situation by communicating to a specialised professional, such as the specialist perinatal mental health midwife, as soon as possible. This was not safe or dutiful practice, as monitoring for signs and symptoms of mental illness is an important midwifery role (National Institute for Health and Care Excellence (NICE), 2014), particularly as early

detection allows for effective postpartum psychosis management and maximises the safety of mother and infant (Nahar et al, 2017).

However, given the rarity of postpartum psychosis (VanderKruik et al, 2017), midwives may lack sufficient experience to confidently recognise its signs and symptoms (Noonan et al, 2017). Consistent training (Cantwell et al, 2017) should therefore be provided by healthcare institutions and specialist perinatal mental health midwives to raise and maintain competence (Maternal Mental Health Alliance (MMHA) et al, 2013). However, midwives are expected to update and maintain their own knowledge (NMC, 2018). Furthermore, human factors may have played a role (Derickson et al, 2015), if the midwife was scared or apprehensive to refer Sarah's disordered behaviour to a specialist, for fear of raising a false alarm and appearing inadequate. Healthcare institutes can cultivate 'psychological safety' by being aware of human factors, which enables courage to communicate across multidisciplinary team hierarchies (Aranzamendex et al, 2015).

The community midwife's lack of action did not fulfil the midwife's role to protect women's dignity (NMC, 2018), as evidenced by Sarah's husband bringing her to A&E the next day in a state of pyrexia and confusion. Effective timely referral to the specialist perinatal mental health midwife, leading to robust risk assessments, could have avoided this (Cantwell et al, 2017). Moreover, continuity of care throughout Sarah's perinatal experience was not provided, likely due to staff shortages; however, this probably impeded the development of a trusting relationship between Sarah and midwifery staff (NMC, 2018). This may have discouraged Sarah from communicating concerns, and inhibited knowledge of Sarah's usual behaviour, hence delaying the recognition of her decline (Cantwell et al, 2017).

A review of postnatal notes from day 0 and at discharge on day 1 did not describe Sarah's emotional wellbeing, her adaptation to motherhood or her competence at recognising her infant's needs, and the notes were inadequate in providing an immediate postnatal baseline of her mental health. The Whooley questions (*Table 1*) were asked and recorded as 'no abnormalities detected'; however, their design favours false positives (Bosanquet et al, 2015). Alternative questions (*Table 1*) were not considered. Instead documentation encompassed Sarah's physical health and although this is important, the absence of mental wellbeing documentation (NICE, 2014) implies its exclusion from midwifery care.

Care by mental health staff

In A&E, a mental health nurse specialist extracted a highly detailed psychosocial history, in order to individualise risk and provide care that contextualised Sarah's culture

and individuality (Di Florio et al, 2014). A family history of learning disability and a challenging housing situation were discovered. The couple rented a room in a five bedroom house along with four other couples, two of whom were recently postnatal. This may signal poverty and stress, which could lead to mental health vulnerability. Sarah's housing situation was also a mental health risk factor as maintaining functional relationships with other families within a confined, shared space can be stressful and difficult, particularly as the home is meant to be a space of relaxation (Franks et al, 2017). However, living with other families can, in some cases, be a display of effective community, where families in lower-resource settings assist each other to transition into motherhood and collectively raise children (Al-Maliki et al, 2012). Sarah may not have confessed her housing situation at booking due to negative stigma (Davis et al, 2018); therefore midwives and specialist perinatal mental health midwifes (MMHA et al, 2013) need to challenge this stigma with open communication and education to prevent secrecy and misplaced shame (VanderKruik et al, 2017).

The mental health nurse was effective in creating a comprehensive biopsychosocial picture, which aided direction of management by highlighting risk factors (Table 2) (NICE, 2014). However, requiring Sarah to interpret, rather than a professional, neglected her partner's needs. It proved futile (as she repeated her own disjointed thoughts) and was highly improper due to her compromised cognition (Mannion and Slade, 2014). Although it was necessary to prioritise Sarah, targeting the family holistically is needed for full recovery (Glangeaud-Freudenthal et al, 2014) and for prevention of long-term sequelae to the infant (Thippeswamy et al, 2017). Partners of women with postpartum psychosis have been shown to experience fear, confusion and anger; and are reported to be reluctant help-seekers, which can contribute to stress and marital collapse (Wyatt et al, 2015). Midwives should therefore provide affirmational support while informing and educating the family to increase understanding of the illness. This enables all to cope with the associated stress and guides the partner to help the patient, as their support is crucial to recovery (Doucet et al, 2012).

The mental health nurse specialist also discovered Sarah's antenatal anxiety over the small symphysiso-fundal height and reduced fetal movements, despite normal growth scans, and a non-suspicious CTG. Although the midwives discharged Sarah with warnings to return if reduced fetal movements repeated, they did not document any reassurance given, or note her anxiety. Considering the growing evidence that maternal stress leads to negative neonatal outcomes (Zijlmans et al, 2015), midwives here were therefore not effective in monitoring

Table 1. Screening questionnaires	
Whooley questions (Bosanquet et al, 2016)	During the past month, have you often been bothered by feeling down, depressed or hopeless? (Yes/no) During the past month, have you been bothered by little interest or pleasure in doing things? (Yes/no)
Generalised Anxiety Disorder 7-item (Spitzer et al, 2006)	Explores emotional wellbeing over past 2 weeks
Edinburgh Postnatal Depression Score (Cox et al, 1987)	Explores emotional wellbeing over past 7 days

Table 2. Risk factors for postpartum psychosis		
Grade	Risk factors	
High-level (Tinkelman et al, 2017)	Previous postpartum psychosis	
	Pre-existing psychotic illness (bipolar disorder)	
	Previous psychotic episode	
	Discontinued psychotropic medication	
	Family history of severe mental illness	
Intermediate level (Perry et al, 2016)	Caesarean section	
	Obstetric complications (particularly pre-eclampsia)	
	Genetic variations	
	Sleep deprivation	
Other (Perry et al, 2016)	Primiparity (Di Florio et al, 2014)	
	Maternal age above 35 years	
	Immigrant population (Davis, 2017)	
	Autoimmune disorders e.g. Autoimmune thyroiditis (Bergink et al, 2014) and systemic lupus erythematosus (Ganjekar et al, 2018)	

perinatal mental health risk (NICE, 2014). This disregard continued in the intrapartum notes, where Sarah grew anxious at sighting thin meconium in her amniotic fluid, and midwives did not document that they informed her that this was normal in postdates pregnancies (England, 2014), or that they gave reassurance. Midwives may have assumed that due to Sarah's background, she would have had health-based knowledge, and thereby not provided as much information or psychological support. This violates a tenant of practice (NMC, 2018) to not discriminate between patients, and to provide quality care, including information, to all.

Sleep deprivation may have contributed to Sarah's development of postpartum psychosis as she was working night shifts before commencing maternity leave, which was compounded by gestational sleep disruption and

allergies) must be checked before administration (NMC, 2007).

postnatal insomnia. Although no reports associate night shift work with postpartum psychosis (Aiken et al, 2016), evidence of the effect of sleep deprivation on postpartum mental illness and postpartum psychosis aetiology exists (Lawson et al, 2015). Midwives did not take note of this aspect of Sarah's employment, and therefore inadequately screened Sarah's physical and mental wellbeing, both antenatally and postnatally. This is important as the information could have alerted staff to a potential perinatal mental health risk (NICE, 2014).

Interprofessional working

The mental health nurse specialist performed her role well in communicating to perinatal mental health, obstetric and midwifery staff, who then orchestrated a side room in the postnatal ward for Sarah's readmission and privacy. This was a good display of communication across multidisciplinary teams and interprofessional collaboration in the best interests of the woman (Murray-Davis et al, 2011). Sarah's history was then communicated to maternity staff and a mental health nurse was stationed with her to monitor her condition and protect her safety (NMC, 2018). Sarah's sister-in-law stayed throughout the readmission, caring for the infant and ensuring that Sarah continued to breastfeed (Wyatt et al, 2015). Although these actions are a midwife's duty (Posmontier, 2010), staff shortages and time restraints make it difficult to provide the complete attention required. Therefore, recruiting more midwives and retaining them, with a work culture that promotes staff wellbeing and happiness, is needed for effective and safe midwifery care (Aquino et al, 2016).

Good interprofessional collaboration was also seen when the obstetric and perinatal mental health teams communicated about Sarah's management (Murray-Davis et al, 2011), as there was indecision over whether to

choose a sepsis or a mental illness pathway. Initially, a sepsis pathway was chosen, but later changed after further discourse between the two clinical teams, who elected the consultant perinatal mental health psychiatrist as the lead clinician. Upon the change, the perinatal mental health midwife and other midwifery staff were informed, exemplifying model communication across a multidisciplinary team (Murray-Davis et al, 2011). The specialist perinatal mental health midwife held an important office of acting as a co-ordinator of care and advocate for the women (Posmontier, 2010), which was vital considering Sarah's vulnerable mental capacity.

Kalanithi (2016) has reported dangerous power dynamics and tugs of control between clinical teams, along with egocentric decision-making that impedes interprofessional communication and collaboration and has detrimental effects on patients' health and safety. The good communication seen in Sarah's case meant that this was unlikely; however, it remains a barrier to effective interprofessional working in general, as does lack of trust, respect, patient-centred work ethic and understanding of others' professional roles (Aquino et al, 2016).

Sarah's management started with antibiotics to treat her infection, followed by oral paroxetine for mood stabilisation. This was in line with NICE guidelines, which recommend stabilising physical health before treating mental health (NICE, 2014). Following the Department of Constitutional affairs' code of practice (2007), midwives first assumed that Sarah had capacity to consent, which was gained before medicine administration, in concordance with local and NMC standards (2007) (*Table 3*).

As immunology can play a role in postpartum psychosis pathogenesis (de Witte et al, 2018), it was important to use a sepsis bundle screen to ascertain the presence of an infection. This was performed and proved positive. Infection may have been missed earlier when Sarah complained of fever to her community midwife, despite a normal temperature reading. Raised monocyte and microglia inflammatory activation patterns are thought to be biomarkers of postpartum psychosis (Bergink et al, 2014); screening for these may be performed in the future, as could scanning for structural cortical changes in women with postpartum psychosis (Fusté et al, 2017). However, screening women with MRI scans, even women at risk (Table 2), is unlikely to be cost effective due to the rarity of postpartum psychosis (Dias and Jones, 2016).

Throughout her 12-day readmission, Sarah's mental health fluctuated between recovery and decline. This follows postpartum psychosis's natural history, which, without proper clinical knowledge, can result in repeated discharge and readmission of the patient (Cantwell et al, 2017). This did not happen with Sarah due to co-

Table 4. Resources for midwives		
Resource	Content	
Royal College of Psychiatrists (2015)	This report details the needs of women suffering from mental health in the UK, in addition to the expertise and facilities these women have a right to access within local geographical distances. Midwives can gain an understanding of the needs of women suffering from perinatal mental health issues.	
Maternal Mental Health Alliance (2018a; 2018b; 2018c)	This is a network of organisations across the UK dedicated to quality mental health care for women during pregnancy and the postpartum period. It holds important resources for midwives and other health professionals to understand the challenges and needs that women with perinatal mental health issues experience, and hosts online training for professional perinatal mental health education. A map that details the locality of all 17 mother and baby units in the UK and shows the availability of perinatal mental health services for women, is also available.	
Postpartum Support international (2018)	This is a comprehensive global organisation that hosts conferences on postpartum mental health, while offering information, guidance and social support for professionals, service users and their partners about postpartum psychosis. It also offers online training and professional tools, such as screening questionnaires, and holds an alliance for women of colour experiencing perinatal mental health.	
Carver (2017)	This blog post is the touching personal documentation of a woman's experience with postpartum psychosis that details the role that staff have in tackling stigma of mental health. It enables staff to better understand and empathise with the experiences the woman suffered, which will lead to more compassionate care.	
Toxbase (2018)	This is an online resource for health professionals, commissioned by Public Health England, details the potentially dangerous outcomes of certain drugs and overdose. A mobile app version is also available, allowing for rapid access to information.	
Drugs and Lactation Database (LactMed) (National Library of Medicine, 2018)	LactMed offers information on the safety of a drug for breastfeeding. It details a drug's effect on the infant, its amount in breastmilk, and its effect on lactation itself. This is a useful resource for midwives in not only growing their knowledge base, but for rapid access to pharmaceutical knowledge when access to a specialist pharmacist is limited.	

ordinated multidisciplinary team efforts; however, her recovery became dangerous as Sarah mentioned thoughts of killing her child and was declining medication. Despite Sarah's right to refuse medication (NMC, 2007), the risk to safety induced the midwives and the mental health nurse to document and communicate this promptly; resulting in the presence of perinatal mental health and obstetric teams.

Sarah's mental capacity was assessed by two perinatal mental health psychiatrists, in line with the code of practice (Department for Constitutional Affairs, 2007). She was then sectioned under the Mental Capacity Act 2005, but only after a joint multidisciplinary team meeting passed to incorporate the input of all members, communicate understanding of the situation and create a plan of care. This was good clinical practice, as communication was made in a timely fashion and action was taken promptly in order to protect the safety of mother and infant (NMC, 2018). Unfortunately, in this instance, no documentation related to the partner or family members was made, implying their exclusion. This may further propagate their isolation, pain and distress (Wyatt et al, 2015).

Transfer and care planning

Discussions began over transfer to a psychiatric unit. An MBU was preferred; however, due to the severity of Sarah's postpartum psychosis, it was not known if it would be suitable. Sarah's husband agreed to care for the infant, should separation from the mother occur; however, there were no discussions over extending his leave from work, organising childcare, infant feeding, visits to his wife, financial support or protecting his own mental health (Doucet et al, 2012). A translator was again not used, impeding effective communication and understanding (NMC, 2018), which is necessary for partners' confidence in staff (Davis et al, 2018). The perinatal mental health staff therefore failed to respect the degree of complexity that accompanies caring for a child, which is another example of staff not targeting the family as a whole (Glangeaud-Freudenthal et al, 2014) or providing sensitive care (NMC, 2018).

Sarah was transferred to an MBU on day 24 after assessment from MBU staff. This is best practice (Cantwell et al, 2017), as separation of the infant from the mother has detrimental effects on maternal recovery, mother-child bonding and maternal parenting

Key points

- Due to negative stigma and taboo, women may feel shame in admitting risk factors for mental health vulnerability.
- postpartum psychosis is a postnatal emergency and requires urgent specialist attention that is prompt and timely managed.
- Preventing separation of mother and baby is key to recovery, as is inclusion of the partner and family.
- Care must be given within the context of the woman's life and culture, while targeting the family as a whole.

confidence (Glangeaud-Freudenthal et al, 2014). However, earlier transfer is preferred, as the postnatal ward is not a suitable environment for management, treatment and full recovery from postpartum psychosis (Cantwell et al, 2017). This is because, unlike MBUs, postnatal wards lack the continuous mental health staff, cognitive behavioural therapy, and facilities in which to support maternal parenting and child bonding in the context of severe mental illness (Glangeaud-Freudenthal et al, 2014). MBUs can also organise electroconvulsive therapy, which is recommended for postpartum psychosis women with catatonia (Tinkelman et al, 2017).

The delay may have been due to time restraints that occur when collaborating with clinical staff in a different locality, or because of uncertainty over Sarah's suitability for a MBU, but it is more likely that bed shortages were to blame (as this was also documented). These bed shortages are linked to the high cost and long stay that MBU admissions accrue (Glangeaud-Freudenthal et al, 2014), but more heavily associated with the scarcity of MBUs (MMHA, 2018c). Despite four new MBUs opening in 2018/19 (MMHA, 2018c), more are needed for women to access local specialist perinatal mental healthcare (Royal College of Psychiatrists, 2015).

No more information is known after Sarah's transfer, however, upon full recovery, a joint meeting with Sarah, the community health visitor, specialist perinatal mental health midwife (for advocacy and continuity), psychiatric team, pharmacist, GP and obstetric team will be needed (Glangeaud-Freudenthalet al, 2014). Sarah's husband can be included if she consents (NICE, 2014). This will allow MBU-to-community discharge planning, and ensure that Sarah has social support while at home, and good links with the MBU (Glangeaud-Freudenthal et al, 2014). This is to maintain Sarah's mental health, help her in adjusting to autonomous parenthood and prevent psychiatric readmission (Doucet et al, 2012).

Subsequently, a joint meeting with the couple, a translator and a psychiatrist or specialist perinatal mental health midwife is needed for pre-conception counselling (NICE, 2014) before MBU discharge. This is to inform the couple of the teratogenic effects of psychotropic

medication that she may need prophylactically in a second pregnancy, or that she may still be taking, which should be administered alongside long-acting reversible contraception (Cantwell et al, 2017). Breastfeeding should be encouraged throughout her care, but tact is required, as some psychotropic drugs, such as carbamazepine, clozapine and lithium, are not suitable for breastfeeding, and Sarah should be made aware of their effects (NICE, 2014). If they have been prescribed while Sarah is breastfeeding, the reason needs to be documented, and regular checks on the infant's renal function should be conducted (NICE, 2014). Sodium valproate should not be considered for Sarah due to significant teratogenicity (NICE, 2014). This way, tailored, individualised care can be planned for Sarah, considering her feeding choices and her newborn child (NICE, 2014).

This meeting can also inform Sarah and her husband of the high risk of postpartum psychosis recurrence after a subsequent pregnancy (Dias and Jones, 2016). Education on the signs and symptoms should follow, along with how to escalate the situation effectively (Doucet et al, 2012) and access care quickly (Nahar et al, 2017). Given that partners can be reluctant help-seekers, this information is especially important (Doucet et al, 2012). The couple would also be informed that the psychosis may be the first episode of a chronic mental disorder, such as bipolar disorder, that will require more specialist antenatal attention should they decide to conceive again (Glangeaud-Freudenthal et al, 2014). As a result, the couple are empowered by being included in their care and decision-making process (NMC, 2018).

Recommendations for future practice

In future, documenting the mental state of women and their relatability to their infant's needs, including assessing emotional and verbal interactions with the child should be prioritised (NICE, 2014). Continuity of care should also be prioritised in order to maintain trusting relationships with staff to inspire patients' confidence in them and patients' confidence to speak of their feelings and thoughts without fear (Posmontier, 2010). Training and education for midwives to detect postpartum psychosis early is also needed (Posmontier, 2010).

Conclusion

Due to the rapid and dangerous manifestations of postpartum psychosis (Norhayati et al, 2015), it is considered a psychiatric emergency (Kent, 2011), requiring prompt detection and urgent treatment (Cantwell et al, 2017). A complete biopsychosocial history must be taken at booking to plan personalised care that contextualises the woman's beliefs, values and wishes (Noonan et al, 2017). This is impeded by stigma, taboo and misunderstandings attached to mental

health, in addition to fear of being separated from their child (Davis et al, 2018). Postpartum psychosis is also distressing for partners and family, who are necessary for the woman's recovery and support (Wyatt et al, 2015). Midwives must therefore inform and include them so that they can cope (Doucet et al, 2012).

Midwives have an integral role to play in perinatal mental health (Franks et al, 2017). This involves educating and empowering women to make their own choices and actively participate in their own care (NMC, 2018). Midwives are a necessary point of contact with the woman, building trusting relationships that lead to safe and compassionate care (NMC, 2018). This is possible by monitoring and documenting both the physical and mental state of the woman, making referrals to relevant specialists in a timely fashion (Noonan et al, 2017) and administering medications safely (NMC, 2007).

Effective interprofessional collaboration, by way of candid communication across a multidisciplinary team, is essential for safe and comprehensive management of the woman (Bayrampour et al, 2018). This requires trust, respect and knowledge of teams and individuals (Murray-Davis et al, 2011), thereby providing good care, and dramatically reducing the risk of separation between mother and child by way of transfer to a MBU, which is best for recovery (NICE, 2014). BJM

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- Aiken CE, Aikin AR, Scott JG and Brickelsby JC. The influence of hours worked prior to delivery on maternal and neonatal outcomes: a retrospective cohort study. Am J Obstet Gynecol. 2016;215(5):634.e1-634.e7. https://doi.org/10.1016/j.ajog.2016.06.026
- Al-Maliki A, Kaufer D, Ishizaki S, Dreher K. Fear and threat in war zones: Fear of Giving birth in an Israeli Prison. In: Arab Women in Arab News, Old Stereotypes and New Media. Doha: Bloomsbury Qatar Foundation Publishing; 2012
- Aquino MRJRV, Olander EK, Needle JJ, Bryar RM. Midwives' and health visitors' collaborative relationships: A systematic review of qualitative and quantitative studies. Int J Nurs Stud. 2016;62:193–206. https://doi.org/10.1016/j.ijnurstu.2016.08.002
- Aranzamendez G, James D, Toms R. Finding antecedents of psychological safety: a step toward quality improvement.

CPD reflective questions

- How best can midwives tackle the taboo of perinatal mental health issues and postpartum psychosis?
- Is it wise or ethical at booking to make known the possible severity of mental health disorders to women, regardless of risk?
- A pivotal role of the midwife is to advocate and support the woman, but should advocating for partners and family members in the context of severe mental health also be a midwifery role? If so, how do we accomplish this?
- Greater training is needed for midwives to understand puerperal psychosis, but due to the rarity of its occurrence, how will lack of the midwife's experience impact care? What role does it have in student midwife training?

Nurs Forum. 2015;50(3):171–178. https://doi.org/10.1111/ nuf 12084

Bayrampour H, Hapsari AP, Pavlovic J. Barriers to addressing perinatal mental health issues in midwifery settings. Midwifery. 2018;59:47–58. https://doi.org/10.1016/j.midw.2017.12.020

Bergink V, Gibney SM, Drexhage HA. Autoimmunity, inflammation, and psychosis: a search for peripheral markers. Biol Psychiatry. 2014;75(4):324–331. https://doi.org/10.1016/j.biopsych.2013.09.037

Bosanquet K, Mitchell N, Gabe R et al. Diagnostic accuracy of the Whooley depression tool in older adults in UK primary care. J Affect Disord. 2015;182:39–43. https://doi.org/10.1016/j.jad.2015.04.020

Cantwell R, Gray R and Knight M on behalf of the MBRRACE-UK psychosis writing group. Caring for women with Psychosis. In: Knight M, Nair M, Tuffinell D et al (eds). Saving Lives, Improving Mothers' Care: Lessons learned to inform maternity care from the UK and Ireland Confidential Enquiries into Maternal Deaths and Morbidity 2013–15. Oxford: National Perinatal Epidemiology Unit, University of Oxford: 2017

- Carver C. Postpartum psychosis: I'm afraid how you'll judge me as a mother and a person. 2017. https://mosaicscience.com/story/post-partum-psychosis-birth-mental-health-babies/(accessed 11 January 2019)
- Cox JL, Holden JM, Sagovsky R. Detection of postnatal depression. Development of the 10-item Edinburgh Postnatal Depression Scale. Br J Psychiatry. 1987;150(06):782–786
- Davies W. Understanding the pathophysiology of postpartum psychosis: challenges and new approaches. World J Psychiatry. 2017;7(2):77–88. https://doi.org/10.5498/wjp.v7.i2.77
- Davis WN, Raines C, Indman P, Meyer BG, Smith A. History and purpose of postpartum support international. J Obstet Gynecol Neonatal Nurs. 2018;47(1):75–83. https://doi.org/10.1016/j. jogn.2017.10.004
- de Witte LD, Snijders G, Litjens M et al. Are infectious agents involved in the pathogenesis of postpartum psychosis? J Affect Disord. 2018;229:141–144. https://doi.org/10.1016/j. jad.2017.12.069
- Degner D. Differentiating between 'baby blues', severe depression, and psychosis. BMJ. 2017;359:j4692. https://doi.org/10.1136/bmj.j4692
- Derickson R, Fishman J, Osatuke K, Teclaw R, Ramsel D.
 Psychological safety and error reporting within Veterans Health
 Administration hospitals. J Patient Saf. 2015;11(1):60–66.
 https://doi.org/10.1097/PTS.00000000000000082

Department for Constitutional Affairs. The Mental Capacity Act

- Di Florio A, Jones L, Forty L et al. Mood disorders and parity—A clue to the aetiology of the postpartum trigger. J Affect Disord. 2014;152-154:334–339. https://doi.org/10.1016/j.jad.2013.09.034
- Dias MC, Jones I. Perinatal Psychiatry. Medicine. 2016;44(12):720–723. https://doi.org/10.1016/j.mpmed.2016.09.006
- Doucet S, Letourneau N, Blackmore ER. Support needs of mothers who experience postpartum psychosis and their partners. J Obstet Gynecol Neonatal Nurs. 2012;41(2):236–245. https://doi.org/10.1111/j.1552-6909.2011.01329.x
- England C. The healthy low birth weight baby. In: Marshall J, Raynor M (eds). Myles Textbook for Midwives (16th edn). Edinburgh: Churchill Livingstone, Edinburgh; 2014: 620-621
- Franks WLM, Crozier KE, Penhale BLM. Women's mental health during pregnancy: A participatory qualitative study. Women Birth. 2017;30(4):e179–e187. https://doi.org/10.1016/j. wombi.2016.11.007
- Fusté M, Pauls A, Worker A et al. Brain structure in women at risk of postpartum psychosis: an MRI study. Transl Psychiatry. 2017;7(12):1286. https://doi.org/10.1038/s41398-017-0003-8
- Ganjekar S, Dcruz M, Thippeswamy H, Sutar R, Prakash A, Chandra PS. Autoimmune disorders and postpartum psychosis: case report with a comprehensive topical review. Personalized Medicine in Psychiatry. 2018;7–8:1–6. https://doi.org/10.1016/j.pmip.2018.02.001
- Glangeaud-Freudenthal NMC, Howard LM, Sutter-Dallay AL. Treatment—Mother-infant inpatient units. Best Pract Res Clin Obstet Gynaecol. 2014;28(1):147-57. https://doi.org/10.1016/j.bpobgyn.2013.08.015
- Kalanithi P.When Breath Becomes Air. New York (NY): Random House: 2016
- Kent A. Psychiatric disorders in pregnancy. Obstetrics, Gynaecol Reprod Med. 2011;21(11):317–322. https://doi. org/10.1016/j.ogrm.2011.09.002
- Lawson A, Murphy KE, Sloan E, Uleryk E, Dalfen A. The relationship between sleep and postpartum mental disorders: A systematic review. J Affect Disord. 2015;176:65–77. https://doi. org/10.1016/j.jad.2015.01.017
- Mannion A, Slade P. Psychotic-like experiences in pregnant and postpartum women without a history of psychosis. Schizophr Res. 2014;160(1-3):118–123. https://doi.org/10.1016/j.schres.2014.10.003
- Maternal Mental Health Alliance. Home. 2018a. www. maternalmentalhealthalliance.org/ (accessed 11 January 2019)
- Maternal Mental Health Alliance. Free online training. 2018b www.maternalmentalhealth.org.uk/resources/training/
- Maternal Mental Health Alliance. Maps. 2018c. https://maternalmentalhealthalliance.org/campaign/maps/ (accessed 11 January 2019)
- Maternal Mental Health Alliance. National Institute for the Prevention of Cruelty to Children and Royal College of Midwives. Specialist perinatal mental health midwives: what they do and why they matter. London: RCM; 2013
- Murray-Davis B, Marshall M, Gordon F.What do midwives think about interprofessional working and learning? Midwifery. 2011;27(3):376–381
- Nahar A, Kondapuram N, Desai G, Chandra PS. Catatonia among women with postpartum psychosis in a Mother-Baby inpatient psychiatry unit. Gen Hosp Psychiatry. 2017;45:40–43. https://doi.org/10.1016/j.genhosppsych.2016.12.010

- National Institute for Health and Care Excellence. Antenatal and postnatal mental health: clinical management and service guidance [CG192]. London: NICE; 2014
- National Library of Medicine. Drugs and Lactation Database (LactMed). 2018. www.toxnet.nlm.nih.gov/newtoxnet/lactmed.htm (accessed 11 January 2019)
- Noonan M, Doody O, Jomeen J, Galvin R. Midwives' perceptions and experiences of caring for women who experience perinatal mental health problems: an integrative review. Midwifery. 2017;45:56–71. https://doi.org/10.1016/j.midw.2016.12.010
- Norhayati MN, Nik Hazlina NH, Asrenee AR, Wan Emilin WMA. Magnitude and risk factors for postpartum symptoms: A literature review. J Affect Disord. 2015;175:34–52. https://doi.org/10.1016/j.jad.2014.12.041
- Nursing and Midwifery Council. Standards for medicine management. London: NMC; 2007
- Nursing and Midwifery Council. The Code: Professional standards of practice and behaviour for nurses and midwives. London: NMC; 2018
- Perry A, Gordon-Smith K, Di Florio A et al. Adverse childhood life events and postpartum psychosis in bipolar disorder. J Affect Disord. 2016;205:69–72. https://doi.org/10.1016/j.jad.2016.06.061
- Posmontier B. The role of midwives in facilitating recovery in postpartum psychosis. J Midwifery Womens Health. 2010;55(5):430–437. https://doi.org/10.1016/j.jmwh.2010.02.011
- Postpartum Support International. Postpartum Psychosis. 2018. www.postpartum.net/learn-more/postpartum-psychosis/ (accessed 11 January 2019)
- Royal College of Psychiatrists. Perinatal mental health services: Recommendations for the provision of services for childbearing women [CR197]. London: RCP; 2015
- Spitzer RL, Kroenke K, Williams JBW, Löwe B. A brief measure for assessing generalized anxiety disorder: the GAD-7. Arch Intern Med. 2006;166(10):1092–1097
- Thippeswamy H, Paul P, Purushottam M, Philip M, Jain S, Chandra PS. Estrogen pathway related genes and their association with risk of postpartum psychosis: A case control study. Asian J Psychiatr. 2017;26:82–85. https://doi.org/10.1016/j.ajp.2017.01.014
- Tinkelman A, Hill EA, Deligiannidis KM. Management of new onset psychosis in the postpartum period. J Clin Psychiatry. 2017;78(9):1423–1424. https://doi.org/10.4088/ JCP.17ac11880
- Toxbase. Home. 2018.www.toxbase.org (accessed 11 January 2019) [Login required]
- VanderKruik R, Barreix M, Chou D et al. The global prevalence of postpartum psychosis: a systematic review. BMC Psychiatry. 2017;17(1):272. https://doi.org/10.1186/s12888-017-1427-7
- Wyatt C, Murray C, Davies J, Jomeen J. Postpartum psychosis and relationships: their mutual influence from the perspective of women and significant others. J Reprod Infant Psychol. 2015;33(4):426–442. https://doi.org/10.1080/02646838.2015.1027181
- Zijlmans MAC, Riksen-Walraven JM, de Weerth C. Associations between maternal prenatal cortisol concentrations and child outcomes: A systematic review. Neurosci Biobehav Rev. 2015;53:1–24. https://doi.org/10.1016/j. neubiorev.2015.02.015