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## Birth trauma and post-traumatic stress disorder: the importance of risk and resilience

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## EDITORIAL

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## Birth trauma and post-traumatic stress disorder: the importance of risk and resilience

In the last 20 years there has been rapid development of research on birth trauma and postpartum post-traumatic stress disorder (PTSD). A review and meta-analysis of 59 studies of the prevalence of PTSD during pregnancy and postpartum showed that 4% of women develop PTSD after birth (Dikmen Yildez et al., 2017). This means approximately 204,000 women in the European Union and 157,000 women in the USA are likely to be affected every year (Eurostat Statistics Explained, 2015; Martin, Hamilton, Osterman, Curtin, & Mathews, 2015). Unlike many other postpartum psychological problems, there is the potential to prevent postpartum PTSD by changing maternity care to reduce the number of women who experience birth as traumatic.

One approach to understanding the causes of birth trauma and PTSD is to identify risk factors. A meta-analysis of 50 studies found that key vulnerability factors were depression in pregnancy, fear of childbirth, poor health or complications in pregnancy, a history of PTSD, or counselling for pregnancy or birth-related factors. The strongest risk factors during birth were a negative subjective birth experience, having an operative birth (i.e. assisted vaginal or caesarean section), lack of support during birth, and dissociation. After birth, PTSD was associated with poor coping and stress, and was highly comorbid with depression (Ayers, Bond, Bertullies, & Wijma, 2016). These vulnerability and risk factors are consistent with other reviews of the evidence for postpartum PTSD (Andersen, Melvaer, Videbech, Lamont, & Joergensen, 2012; Grekin & O'Hara, 2014; Olde, van der Hart, Kleber, & van Son, 2006) and risk factors found in other trauma populations (Brewin, Andrews, & Valentine, 2000; Ozer, Best, Lipsey, & Weiss, 2003).

This focus on risk is embedded within, and influenced by, the wider healthcare culture of risk avoidance, so it is understandable that researchers (including myself) have concentrated on this. However, it overlooks the contrasting but potentially complementary perspective of examining positive factors that may play a protective or preventative role. There has been a move towards this positive perspective in many areas. Positive psychology is a field of research which broadly looks at what enables people to flourish and thrive. It encompasses many different theoretical and research areas that have a common focus on positive human functioning, health and adaptation to adversity (Aspinwall & Tedeschi, 2010). Similarly, in midwifery, researchers have called for a 'salutogenic' health-promoting approach to care rather than a pathogenic approach (Magistretti, Downe, Lindstrøm, Berg, & Schwarz, 2016). For events to be salutogenic, theorists propose they need to be comprehensible, manageable and for people to find meaning in them (Antonovsky, 1987).

In the PTSD literature research taking this positive perspective has focused on resilience and post-traumatic growth. While this literature is very advanced, far less research has looked at resilience and post-traumatic growth in perinatal women. Understanding resilience and post-traumatic growth during the perinatal period would provide a more nuanced and comprehensive understanding of postpartum PTSD. It may also enable us to identify ways to enhance women's capacity to adapt and thrive, and therein inform changes to maternity care services in ways that increase resilience as well as reduce risk.

Resilience has been conceptualised on a number of dimensions. The two main dimensions are the ability for people to recover from stressful or adverse events, i.e. 'bounce back'; and the ability

to have sustainability, i.e. the capacity to continue in the face of adversity (Reich, Zautra, & Hall, 2010). Evidence from non-perinatal populations suggests the majority of people are resilient. For example, trauma and adversity are experienced by 50–60% of people in Europe at some point in their lifetime (Horn, Charney, & Feder, 2016). However, the lifetime prevalence of PTSD in the general population in Europe is approximately 10%, suggesting that most people who experience a traumatic event recover (Horn et al., 2016).

A review of resilience in adult populations found it was associated with greater positive emotion, optimism, active coping, cognitive reappraisal, altruism, mastery, social support, facing fears and having a sense of purpose or meaning (Horn et al., 2016). There are also genetic, epigenetic and environmental factors associated with resilience. For example, developmental studies have shown that children vary in how responsive they are to stress. Unsurprisingly, children who are more responsive to stress have the worst health outcomes if raised in a negative environment. What is surprising, however, is that most responsive children also have the best outcomes if raised in a positive environment. This effect has been found for both physical and psychological health outcomes (Del Giudice, Ellis, & Shirtcliff, 2011). One could hypothesise from this that if women are in a perinatal environment where there is positive emotion, optimism, social support, where women actively cope, feel mastery and have a sense of purpose or meaning they will flourish – and this may be particularly the case for women who are highly responsive to stress.

However, to date, very little research has examined resilience in relation to postpartum PTSD. A longitudinal study of 189 women who had a traumatic birth (defined as meeting DSM-IV criteria for a traumatic event) found that 55% of women were resilient and did not have diagnostic PTSD one month or six months postpartum. Another 22% of women had PTSD at one month but had recovered by six months. This suggests that around three-quarters of women who have traumatic births will recover, at least in terms of not meeting diagnostic criteria (although they still may have symptoms). Chronic PTSD was only observed in 16% of women, and a further 7% had delayed onset PTSD at six months. Women who were in the resilient group reported more social support and satisfaction with healthcare professionals, as well as less depression, fear of childbirth and fewer traumas since birth (Dikmen Yildez, Ayers, & Phillips, in press).

Post-traumatic growth refers to experiencing positive changes in beliefs or functioning as a result of challenging life events or circumstances. Slightly more research has looked at this postpartum. This evidence shows that a moderate amount of growth is reported by between 44% and 50% of women after birth (Sawyer & Ayers, 2009; Sawyer, Ayers, Young, Bradley, & Smith, 2012; Sawyer, Nakić Radoš, Ayers, & Burn, 2015). Common areas of growth are greater appreciation of life, personal strength, relating to others and new possibilities (Sawyer & Ayers, 2009; Sawyer et al., 2012). Factors associated with growth vary between studies. There is some indication that women who have more adverse experiences show more growth. This includes experiences such as operative birth (Sawyer et al., 2012), preterm birth (Noy, Taubman-Ben-Ari, & Kuint, 2015; Porat-Zyman, Taubman-Ben-Ari, & Spielman, 2017; Spielman & Taubman-Ben-Ari, 2009; Taubman-Ben-Ari, Findler, & Kuint, 2010) and women with symptoms of PTSD (Sawyer et al., 2012, 2015). There is also indication that growth is associated with approach coping (Sawyer & Ayers, 2009; Sawyer et al., 2010).

The research on resilience and growth suggests that increasing women's positive emotions, mastery/control, active coping and encouraging a sense of purpose or meaning during pregnancy, birth and postpartum may increase resilience and therein prevent or reduce postpartum PTSD. One factor that is highly associated with both risk and resilience is support (Ayers et al., 2016; Horn et al., 2016). There is a lot of evidence that continuous support during labour is important in birth outcomes (Bohren, Mofmeyr, Sakala, Fukuzawa, & Cuthbert, 2017) and conversely that poor support or interpersonal difficulties during birth are a risk factor for postpartum PTSD (Ayers et al., 2016; Harris & Ayers, 2012). Prospective studies show that support can potentially buffer

against traumatic birth events and is particularly important for women with previous histories of trauma or abuse or who have complications or high levels of intervention during birth (Ford & Ayers, 2011). Support during labour and birth is therefore likely to be critical in terms of both reducing risk and increasing resilience.

To understand birth trauma and postpartum PTSD it is therefore important to examine both risk and resilience because they offer different perspectives on the same phenomena. It also enables the development of interventions that tackle both the reduction of risk and increasing resilience so that women adapt and thrive. More research is needed to determine how specific risk and resilience factors interact to determine whether women develop postpartum PTSD. This means not having a singular focus on either resilience or risk but examining both types of factors, including how they are related over time and the many pathways through which they may influence how women experience birth and whether they develop postpartum PTSD.

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