Parenting Stress in the Early Years – A Survey of the Impact of Breastfeeding and Social Support for Women in Finland and the UK

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Abstract

Background

Being a new parent can be both joyful and stressful. Parenting stress is associated with poorer health and well-being for parents and infant, and increased psychological distress. For new mothers, physical and hormonal changes, expectations of mothering and demands of a new baby may cause additional stress. Breastfeeding is promoted as optimal for maternal and infant health, but can have both positive and negative psychological impacts. Formal and informal social support can offset parenting and breastfeeding stress. Source, content and context of support for new parents are important considerations. This study compares two countries with different parenting and breastfeeding contexts, Finland (more supportive) and the UK (less supportive), investigating the role of breastfeeding stress, self-efficacy and social support as predictors of stress and role strain for new mothers..

Methods

A cross-sectional online survey was completed by 1550 breastfeeding mothers of infants up to 2 years old, recruited via social media platforms in Finland and the UK. Predictors of parenting stress and strain, including demographic factors, childbirth experiences, breastfeeding and social support were investigated.

Results

We found fewer differences between countries than expected, perhaps due to demographic and contextual differences. Women in Finland reported better childbirth experiences, more positive breastfeeding attitudes, and more self-efficacy than in the UK. Levels of parenting stress were similar in both countries. Women in the UK reported more parental role strain, but fewer breastfeeding stressors. Participants accessed more informal than formal supports, including their partner for parenting, and facebook groups and family for breastfeeding. Analysis suggested breastfeeding stress and social support had significant direct effects – respectively increasing and reducing parenting stress and role strain, but no moderating effects of social support suggesting support did not change the relationship between breastfeeding and parenting stress.

Conclusions

Results have important implications for the provision of breastfeeding and parenting support for new mothers. Simple interventions to manage stress for mothers in the postnatal period could be beneficial and are easily delivered by supporters. As shown elsewhere, socio-economic and cultural factors are crucial influences on parenting experiences.

Background

Becoming a mother is a major life transition which can be both joyful and stressful. Health and well-being are important for mother and baby's health during the early years [1] but difficulties adjusting to the

demands of parenting a new baby, the parenting role, including stress and role strain, relationship strains, postnatal depression and anxiety are very prevalent. Parental stress is linked with these common mental health problems which can have a significant negative impact on parent and child health and family relationships [2–4]. Social disadvantage and poverty are also closely linked with parenting stress and distress [5]. A recent systematic review identified global prevalence of postnatal depression of 18%, with significant national disparity due to health and wealth inequalities [6]. Social support has a significant protective role for psychological distress. Support from professionals and informal support from partner, friends and family in the postnatal period are particularly important [7, 8, 9].

There is excellent evidence that breastfeeding promotes positive health outcomes for mother and infant [10], but it has potential to both ameliorate and increase parenting stress. There are clear psycho-physiological benefits of lactation in the perinatal period, being associated with maternal calmness, lowered anxiety and a reduced stress response [11, 12]. However the relationship between stress/anxiety and breastfeeding is bi-directional. Postpartum anxiety or depression can negatively affect infant feeding outcomes [13] and breastfeeding social pressures, or problems can also lead to stress and anxiety. Many women who are motivated to initiate breastfeeding report difficulties, particularly in the first few weeks. For some women the reality of breastfeeding is very different from the ideals promoted by health professionals regarding initiation and duration [14]. Where the message ‘breast is best’ is promoted, negative breastfeeding experiences, including breastfeeding pain or discomfort, or social embarrassment can lead to a sense of dissatisfaction or ‘failure’, reducing maternal confidence or self-efficacy [15] and increasing psychological distress.

Psychological models of stress capture this bidirectionality using ‘transactional’ approaches, where the relationship between sources of stress (stressors) and stress outcomes (strains) are influenced (mediated or moderated) by intervening appraisal variables, including self-efficacy (confidence), coping and social support [16]. This approach is helpful as it avoids circularity in using ‘stress’ to refer to both causes (stimuli) and outcomes (responses). Stressors can include short and long-term ‘daily hassles’ as well as long-term (chronic) stress and life events – such as becoming a parent [17]. In this study, we investigated breastfeeding ‘hassles’ or stressors as a predictor of parenting stressors (sources of stress) and role strains (perceived impact of stressors on parental role), including positive and negative aspects of parenting in breastfeeding mothers of infants 2 years and under, considering the role of formal (health professional) and informal support from others, (partners, family, friends) as a moderating factor or ‘buffer’ [18]. We aimed to capture different facets of support, including the amount and quality of support, and instrumental (practical) and emotional support.

The Importance of Context, Finland and the UK

Policy makers seek to increase breastfeeding initiation and duration to promote better population health. Nevertheless, breastfeeding initiation and maintenance figures meet WHO Guidelines in few countries internationally. Nordic countries have higher rates of breastfeeding initiation and maintenance than others in Europe [19]. Finland aims to become the ‘model’ breastfeeding country in its national

breastfeeding action plan for 2018–2022 [20], and prevalence of any breastfeeding and exclusive breastfeeding has increased over the past 10 years [21]. In contrast, the UK has relatively low and reducing breastfeeding rates of breastfeeding initiation and maintenance [22] with variability between the four UK nations, related to different health systems and cultural factors [23]. Table 1 below provides a summary of some key differences in early parenting and breastfeeding provision between Finland and the four UK nations. There are also key differences in breastfeeding policies, promotion and health care, and the wider cultural context whereby social norms in Finland are generally breastfeeding positive. General parenting support, including maternity/paternity leave, and childcare provision is also more accessible and less costly in Finland than in the UK overall.

Table 1
Breastfeeding Rates and Formal Support for New Parents Comparing Finland and the UK¹

	Finland	UK
Breastfeeding		
<i>Initiation</i>	98%	81% (2010)
<i>Any BF</i>	94% (4 weeks)	55% England, (6 weeks) 68% Scotland 37% Wales 35% N Ireland
<i>Any BF at 6 mths</i>	77%	34% England 43% Scotland 27% Wales 13% N Ireland
Formal health care		
<i>Unicef Baby friendly Hospitals</i>	25% hospitals BFHI certificate 85% hospitals BF outpatient clinic 80% hospitals breastmilk-bank	England; 53% of births in BFHI Scotland; 100% Wales: 86% N Ireland 93%
<i>Postnatal health care (hospital and community)</i>	Hospitals: 100% Midwives WHO BF course 40% Exclusive BF in hospital 97% Partial BF in hospital Community: 97% PH nurses WHO BF course BF outpatient clinics in community	UK – Services with full Baby Friendly Accreditation 60% of maternity services 73% of Health Visiting (Community) services

¹ Estimated data, accurate comparisons are difficult due to different data collection processes, time-frames and metrics

	Finland	UK
Formal parenting support		
<i>Maternity/paternity leave</i>	Maternity leave 105 working days Paternity leave 54 working days	52 weeks maternity leave Pay for 39 weeks 1–2 weeks Paternity leave
<i>Parental leave</i>	158 working days	18 weeks (90 working days)
<i>Daycare provision</i>	Subjective right for public day-care	Variable – linked to receiving Govt benefits.
<i>Maternity package</i>	Baby-Box or cash benefit of €170	England – pilot schemes in some areas Scotland – baby box free for Every baby Wales – Pilot schemes in some areas
¹ Estimated data, accurate comparisons are difficult due to different data collection processes, time-frames and metrics		

Third sector (Voluntary) and peer support groups

Both countries have voluntary organisations in place that support mothers' breastfeeding. The Finnish Association for Breastfeeding (ITU) offers trained peer support for breastfeeding families in Finland. All volunteers have personal breastfeeding experience and have completed ITU's breastfeeding training [24].

In the UK, similar support organisations exist, such as the Breastfeeding Network (BfN), which aims to be an independent source of support and information for breastfeeding women and others. The BfN provides training to become a Registered Breastfeeding Helper or Supporter [25]. The National Childbirth Trust and La Leche League of Great Britain also provide training for volunteers and breastfeeding support for mothers. Whereas fathers in Finland report helpful informal support structures [26], support for partners (fathers) in the UK tends to focus on single or separated parents.

Purpose, aim and scope of current research study

Study aims are to examine the role of breastfeeding stress, self-efficacy, and social support as predictors of parenting stressors and strains for mothers of children up to 2 years who are currently breastfeeding their infant. It compares women in Finland, a country with high breastfeeding rates, with those in the UK, where rates are much lower.

Hypotheses:

1. Breastfeeding mothers with young children who exhibit more breastfeeding stress and lower self-efficacy will experience more parenting stressors and strains.
2. Breastfeeding mothers who have more, and more helpful formal and informal social support will record less breastfeeding stress, more self-efficacy, and fewer parenting stressors and strains.
3. Breastfeeding mothers in Finland will receive more positive support and experience less breastfeeding related stress and higher self-efficacy than those in the UK.

Methods

Design

This was an observational study using an online cross-sectional survey. A theoretically based survey of breastfeeding mothers with children under 2 years was undertaken in Finland in 2016/7 and a comparison survey carried out a few months later in the UK. In both countries, participants were approached via third sector organisations with a breastfeeding and early parenting support role, rather than formal health services, recognizing that new mothers are likely to obtain both generic (focused on parenting) and breastfeeding specific support, from both informal and formal sources and that different types of support may have different functions and impacts. Using on-line recruitment methods also allowed us to obtain large comparable samples over a relatively short timespan. Data on stress and support was also considered useful to help participating organisations to plan future services. The survey was carried out by researchers from the University of Stirling and Helsinki Metropolia University and distributed using the 'Qualtrics' package. Paper copies were available but not requested. The survey used validated psychological measures where available, otherwise they were constructed for the study. Early parenting stressors and strains were primary outcomes, breastfeeding stress, self-efficacy and breastfeeding and parenting support, were main predictors. Sub-analysis compared uniparous and multiparous women.

Recruitment and Participants

The survey was open to mothers of children with at least one child of 2 years or under. Only those currently breastfeeding their youngest child were included in this analysis. It was available in Finnish, Swedish (a second language in Finland) and English. The survey link was posted on websites of non-government organisations supporting breastfeeding and early parenting in Finland and the UK. Respondents in the UK ($n = 533$) were from England (210, 13%), Scotland (306, 20%), Wales (5,1%) and Northern Ireland (12,2%), with 1017 (65%) from Finland.

Sample Size and Statistical Power

Studies using demographic and psychological variables as predictors of stress generally show a medium effect size using multiple regression analysis. Using the G*Power package [27] for an effect size of $r^2 = 0.3$, with power of 0.90 and alpha 0.01 a sample of approximately 102 women in each country was

required. To carry out secondary analysis we aimed to recruit substantially more participants in each context.

Inclusion/ exclusion criteria

The study included women who had ever breastfed their child of 2 years old or under. This paper reports data from those currently breastfeeding. There were no exclusion criteria, although we were not able to offer translation of the survey into other languages, which may have excluded some women.

Measures

Validated measures were used where possible. To encourage completion measures were adapted in some cases to remove items not deemed appropriate for the target population.

Demographic Variables

Maternal age, education level, residence and financial security were proxy variables for socio-economic status and potential predictors of infant feeding distress and more general stress [5, 13].

Parental status: coded according to status: with partner or single parent.

Age: 4 groups from 18–24 to over 50. Group: 1 = 18–24, 2 = 25–34, 3 = 35–49, 4 = 50 and over.

Education: Due to some differences in education systems in each country, highest level of education was measured in four categories, scored 1–4 : Secondary, Further education (including vocational), University and Postgraduate.

Residence was assessed as own (owned) home vs other, and 'urban', 'suburban', 'rural' (recoded as urban/rural).

Financial security was assessed on a 6 point scale: 'Meeting my normal household expenses is..' : from 1 'very difficult' to 6 'very easy'.

Parenting and Infant feeding variables

Childbirth delivery method was coded in categories as vaginal, planned C-section, unplanned c-section.

Skin-to-skin contact immediately after delivery was coded 'yes/no'

Overall birth experience, rated on a 5 point scale from 1 = very bad to 5 = very good.

Children

Number and ages of children living at home, recoded as uniparous/multiparous.

Youngest child's age was coded as 0–11 months; 12–23 months and 23 months and over.

Infant Feeding

Current feeding method, coded as 'only breastmilk'; mixed breastmilk and formula; only formula or 'does not apply' for weaned infants.

Attitudes

To compare breastfeeding attitudes we used 7 items from Swanson and Power (2005) [9]. For example, breastfeeding is: natural, easy, painful, convenient; rated on a 5 point Likert scale from (1) 'strong disagreement' to (5) 'strong agreement'. Three items are reverse scored. Higher scores represent more positive attitudes to breastfeeding. Cronbach's α = .71.

Parenting and Breastfeeding Stress

Parenting stressors

We used 8 items from Park et al (2015) 9 item Postpartum Stress Scale [28], to measure sources of stress, including relationships, being a mother, fussy baby, baby's development, finances, work, own health, sleep, and loneliness, measured on a 4 point scale (scored 0–3) from 'not at all stressful' to 'very stressful'. Cronbach's α = .77.

Parenting Role Strains. 6 items relevant to parents of children in this age group were taken from Berry and Jones' (1995) Parenting Stress Scale [29]. The measure reflects 'strains' including positive and negative outcomes of the parental role. Participants are asked about their experience of being a parent (e.g. 'Caring for my baby sometimes takes more time and energy than I have to give'), rating 'Strong agreement' to 'Strong disagreement' on a 5-point scale (scored 1–5). Positive items (eg 'I am happy in my role as a parent') were reversed so higher scores represented more role strain, Cronbach's α = .73.

Breastfeeding-specific stressors. At the time of the study we could identify no suitable existing measure of common breastfeeding stressful situations. We developed a scale (8 items) based on 'the daily hassles' approach [30], asking participants to rate the stressfulness of common breastfeeding situations (e.g. insufficient milk, breastfeeding outside of home, using a breast pump) rated from 'not stressful' (1) to 'a lot of stress' (5). Cronbach's α = .80.

Timing of Breastfeeding Stress: We asked : At what time point did you experience most stress around breastfeeding? Fixed choice time points from 'at birth' to 'over 1 year' (1–10).

Breastfeeding Self-efficacy (BFSE) was measured using four items from the Breastfeeding Self-efficacy Scale Short Form [31]: 'I am able to determine that my baby is getting enough milk', 'I can cope with breastfeeding', 'I keep wanting to breastfeed', 'I am satisfied with my breastfeeding experience', rated on a

5 point Likert scale from 'strong disagreement' to 'strong agreement'. Higher scores indicate greater self-efficacy. Cronbach's α = .80.

Social support was investigated in relation to their youngest child.

Informal Parenting Support asked for their main source of support with the youngest child: coded as partner, family, and others (including friends, peer supporter, volunteers), and how helpful this support was? (coded 1 = 'very unhelpful' to 5 'very helpful').

Shared Parenting: measured instrumental support from partners, using 7 items adapted from Swanson et al. (2015)[32]. Parents are asked who spends the most time in each activity: 'Getting up in the night to look after the baby', 'Changing nappies', 'Feeding the baby', 'Playing with the baby', 'Taking the baby out', 'Soothing the baby', and 'Babysitting/caring for baby in the daytime' rated on a 5-point scale from 'Mother does all of the time' to 'Father does all of the time', scored from minus 2 to plus 2, zero represented equal engagement in parenting tasks. Total scores were calculated, (range - 14 to + 14). Higher scores represented more partner support, Cronbach's α = .75.

Formal Professional support from health and social care professionals was measured using Mercer's (2004) 10 item CARE (Consultation and Relational Empathy) measure [33]. Participants are asked to think about experiences of parenting their youngest child, and rate statements: 'The professionals who support me have': e.g. 'Made me feel at ease, introduced him/herself, explaining his/her position, been friendly and warm towards me, treated me with respect; not cold or abrupt', on a 5-point scale from 'Strongly agree' (5) to 'Strongly disagree' (1). Higher scores reflect more support, Cronbach's α = .94

Breastfeeding Support: Asked 'Where did you access breastfeeding support for your youngest child?' multiple responses were possible, scored present (1) or absent (0). Support was categorised as *Formal*: Including maternity hospital, and baby clinics; *Informal support*: included Facebook support groups; Other peer support; doula; family; other. Total formal and informal breastfeeding supports were calculated.

Ethical Issues

Incentives for Completion

To enhance the response rate and reach of the questionnaire, we offered a small prize draw incentive for completion, using online shopping vouchers of 25 UK pounds or Euros.

Prior to administering the survey we obtained Ethical Approval from the University of Stirling (Scotland) and The Finnish National Board on Research Integrity (TENK). The main ethical issue was participation in the prize draw which required an email address. Consent for the questionnaire was sought in introductory text and implied by completion. The survey was anonymous including no identifiable data.

Analysis took place at the University of Stirling. Data was stored on password-protected computers only accessed by the researchers. To mitigate breastfeeding or parenting distress or for those who lack social

support, we included signposting to support services. Wording of the questionnaire was considered carefully and reviewed by professionals in the field.

Analysis

Descriptive analysis compared demographics, social support and parenting and breastfeeding variables for participants in Finland and the UK. Effect sizes were reported as Cramers V for chi square (strong association $> .5$) or Cohen's D (large effect $> .8$) for mean comparisons. Main analysis compared women in Finland and the UK with sub-group analysis of uniparous and multiparous women. Following exploratory correlation analysis (Pearson's R), significant ($p > .05$) demographic, breastfeeding-related, and social support variables were entered into linear regression in blocks to predict parenting stressors and role strain. Interaction terms were created by multiplying breastfeeding stress and social support variables to investigate moderation effects of social support, and entered in a final step. Values less than $p < .05$ were considered significant. Analyses were conducted using SPSS v27.

Results

Demographic data; There were notable demographic differences between participants in Finland and the UK. Those in Finland were younger, more likely to be a single parent, and reported less financial security (large ES). Differences in home ownership and education level reflect systemic structural differences in both countries.

Table 2
Demographic details of sample, comparing UK and Finland

	<i>Finland</i> <i>(n = 1017)</i>	<i>UK</i> <i>(n = 533)</i>	<i>Test (df)</i>	<i>P</i>	<i>ES¹</i>
<i>Single parent</i>	42 (4.1%)	9 (2%)	<i>Chi sq (1) = 6.3</i>	<i>p = .01</i>	<i>V = .06</i>
<i>Mean Age group</i> <i>(18–24 to 50+)</i>	2.1 (.57)	2.4 (.54)	<i>t(1545) = 10.48</i>	<i>p < .001</i>	<i>d = .56</i>
<i>Education</i>	123 (12.1%) 239 (23.6%)	51(9.6%)	<i>Chi sq (3) =</i> <i>132.9,</i>	<i>p < .001</i>	<i>V = .29</i>
<i>Secondary</i>	391 (38.6%)	64 (12.1%)			
<i>Further Ed</i>	260 (25.7%)	364 (68.5%)			
<i>University</i>		52 (9.8%)			
<i>Postgraduate</i>					
<i>Own home</i>	687 (67.7%)	428 (80%)	<i>Chi sq (1) = 26.3</i>	<i>p < .001</i>	<i>V = .13</i>
<i>Urban</i>	692 (68.2%)	349(65.2%)	<i>Chi sq (1) = .23</i>	<i>p = .16</i>	<i>V = .03</i>
<i>Financial security</i> <i>(mean 1–6)</i>	4.2(1.0)	4.4 (1.0)	<i>t(1548) = 3.8</i>	<i>p < .001</i>	<i>d = .10</i>
¹ Effect size: Chi Square analysis expressed as Cramers V; T-test as Cohen's D					

Uniparous women made up two thirds of participants in both countries, and were younger (mean age group 2.1 SD 0.6 vs. mean 2.3 SD.56; $t(1540) = 5.04$, $p < .001$, $d = .57$), and reported more financial security (mean 4.3 SD 1.1 vs. mean 4.1 SD1.0; $t(1543) = 2.9$, $p = .005$, $d = 1.0$) than others. Half of participants' youngest child in both Finland (542,62%) and the UK (420 63%) was under 1 year. Women in Finland had more children on average as shown in Table 3.

More women in Finland had vaginal delivery, whereas more in the UK had planned or unplanned C Section. Skin-to-skin experience post delivery was more common in Finland, where women also reported more positive childbirth experiences overall (large ES). Most women in Finland (87%) and the UK (85%) were currently feeding only breastmilk, rather than breastmilk and formula. Women in Finland also had more positive attitudes to breastfeeding.

Table 3
Women's Children, Childbirth and Breastfeeding Experience

	<i>Finland N(%)</i>	<i>UK N(%)</i>	<i>T, Chi sq</i>	<i>Sig, P</i>	<i>ES</i>
<i>Uniparous</i>	<i>581 (57%)</i>	<i>299 (56%)</i>	<i>Chi sq (1) = .10</i>	<i>p = .75</i>	<i>V = .01</i>
<i>No of children (range - 1-6)</i>	<i>1.6 (.94)</i>	<i>1.5 (.71)</i>	<i>t(1543) = 2.1</i>	<i>p = .04</i>	<i>d = .11</i>
<i>Youngest Child:</i>	<i>663 (66%)</i>	<i>300 (57%)</i>	<i>Chi sq (2) = 23.6</i>	<i>p < .001</i>	<i>V = .12</i>
<i>0-11 months</i>	<i>344 (34%)</i>	<i>217 (41%)</i>			
<i>12-23 months</i>	<i>2 (0.2%)</i>	<i>11 (2.1%)</i>			
<i>> 24 months</i>					
<i>Delivery:</i>	<i>872(86%)</i>	<i>396 (74%)</i>	<i>Chi sq (2) = 33.3</i>	<i>p < .001</i>	<i>V = .15</i>
<i>Vaginal</i>	<i>49(4.8%)</i>	<i>48 (9.0%)</i>			
<i>Planned C section</i>	<i>94 (9.3%)</i>	<i>91 (17.0%)</i>			
<i>Unplanned C section</i>					
<i>Skin to skin</i>	<i>855 (84%)</i>	<i>416 (78%)</i>	<i>Ch sq (1) = 10.0</i>	<i>p = .002</i>	<i>V = .08</i>
<i>Overall birth experience: 1 v bad - 5 v good)</i>	<i>3.9 (1.1)</i>	<i>1.7 (0.62)</i>	<i>t (1547) = 41.6</i>	<i>p < .001</i>	<i>d = 2.2</i>
<i>Current feeding</i>	<i>878 (87%)</i>	<i>456 (85%)</i>	<i>Chi sq (1) = .26</i>	<i>p = .61</i>	<i>V = .01</i>
<i>Only breastmilk</i>	<i>137 (13.5%)</i>	<i>77 (14%)</i>			
<i>Mixed</i>					
<i>Breastfeeding attitudes</i>	<i>31.9 (3.1)</i>	<i>29.2 (2.9)</i>	<i>t(1544) = 16.2</i>	<i>p < .001</i>	<i>d = .87</i>

Parenting and Breastfeeding Stress

Parenting stressors and role strains were assessed. There was no difference between women in Finland and the UK in level of parenting stressors, but women in the UK reported more parenting role-strain than those in Finland, as shown in Table 4. Women in Finland reported more breastfeeding stressors, and higher breastfeeding self-efficacy than those in the UK.

Uniparous women reported lower breastfeeding self-efficacy (mean 21.8 SD3.1 vs. mean 22.5 SD2.8; $t(1451) = 4.6, p < .001, d = .24$) than others. However there was no difference in parenting stressors or strains, or breastfeeding stress in relation to parity.

Women with better overall birth experience reported higher self-efficacy ($r = .16, p < .001$), and less parental role strain ($r = -.36, p < .001$), but there was no relationship with parenting stressors or breastfeeding stress.

Table 4
Parenting Stressors, Role Strains, Breastfeeding Stress and Self-efficacy

	<i>Finland</i>	<i>UK</i>	<i>t</i>	<i>Sig. p</i>	<i>ES</i>
<i>Parenting Stressors</i>	9.9 (4.4)	9.6 (4.3)	$t(1164) = 1.3$	$p = .18$	$d = .08$
<i>Parenting Role Strain</i>	13.8 (3.8)	16.7 (3.4)	$t(1546) = 14.9$	$p < .001$	$d = .71$
<i>Breastfeeding Stressors</i>	15.0 (5.2)	14.3(4.2)	$t(1183) = 2.6$	$p = .01$	$d = .05$
<i>Breastfeeding self-efficacy</i>	22.3 (3.6)	21.6 (3.1)	$t(1456) = 4.2$	$p < .001$	$d = .80$

Figure 1 illustrates when women reported most breastfeeding stress. The most stressful breastfeeding time for all women was the week after childbirth, reflecting hormonal changes and learning to breastfeed - however women in the UK found the earlier period, from 3 days to 2 weeks more stressful than women in Finland. Finnish women found periods from 5 months to over a year – when weaning may be taking place, more stressful.

Parenting Support

Women's main parental supporter in both countries was their partner, followed by family, friends and peers, as shown in Table 5. Their support was rated as very helpful overall, albeit more positively by UK participants. In the whole sample, there was no difference in mean 'helpfulness' ratings for partners (mean = 4.7; SD.54), family (mean = 4.8; SD, .43) or friends (mean 4.7; SD.57) $F(2, 1533) = 2.16, p = .11$.

Mothers in Finland had less negative scores in relation to shared parenting, although mothers still did more of each task than their partners. Considering individual items in this measure, partners of women in Finland were more likely to support getting up in the night ($p < .001$) feeding baby ($p < .001$), playing with baby ($p = .01$), and soothing baby ($p = .009$), than those in the UK. Women in Finland rated general professional support (empathy) slightly lower than those in the UK.

Breastfeeding Support

Women used much more informal parenting support than formal hospital and baby clinic support for breastfeeding as shown in Table 5. This is unsurprising since formal health service support tends to focus on the immediate postnatal period.

Uniparous women reported more shared parenting (mean = 4.9; SD 2.9, vs mean = 5.6; SD 3.0; $t(1539) = 4.41$, $p < .001$, $d = .23$), and more helpful informal parenting supporters than other women (mean 4.8 SD .49 vs. mean 4.6, SD .65; $t(1539) = 4.1$, $p < .001$, $d = .21$).

There was no difference in reported quality of professional support (Care) for uniparous compared with multiparous women.

Table 5
Social Support for Parenting and Breastfeeding

Parenting support					
Main supporter	Finland N(%)	UK N(%)	Test,	Sig,p	V =.08
Partner	883 (82.1%)	463(86.5%)	Chi sq (3) = 10.0	p =.02	
Family		51(9.5%)			
Friends, peers	118 (11.6%)	21(3.9%)			
None	51 (5.0%) 13 (1.3%)	0 (0%)			
	Mean (SD)	Mean (SD)	T	Sig, p	
How helpful?	4.8 (.56)	4.6 (.57)	t(1544) = 4.9	p <.001	d =.26
Shared parenting ¹ (range - 14 to + 14)	-4.7 (3.1)	-5.4 (3.0)	t(2068) = 4.8	p <.001	d =.23
Quality of Professional Support (Care)	35.7 (7.6)	36.5 (3.1)	t(2068) = 2.3	p =.02	d =.11
Breastfeeding Support					
Number of formal supports	.65 (.77)	.68 (.72)	t(1548) = .80	p =.42	d =.04
Formal Support (Health services)	N(%)	N(%)	Test	Sig, P	V =.04
Hospital	397 (39.1%)	229 (42.8%)	Chi sq(1) = 2.0	p =.16	V =.01
Baby Clinics	263 (25.9%)	136 (25.4%)	Chi sq (1) =.04	p =.83	
Number of informal supports	1.1 (.92)	1.5 (.68)	t(1548) = 7.8	p <.001	d =.40

¹ More negative scores = less shared parenting

Parenting support					
Informal support	551 (54.3%)	272 (50.8%) 164 (30.7%)	Chi sq (1) = 1.7	p = .19	V= 0.03
Facebook Group	75 (7.4%)	8 (1.5%)	Chi sq(1) = 145.3	p < .001	V = .31
Other peer suppt	17 (1.7%)	249 (46.5%)	Chi sq (1) = .07	p = .79	V = .01
Doula	392 (38.6%)	116 (21.7%)	Chi sq (1) = 9.1	p = .003	V = .08
Family	86 (8.5%)		Ch sq (1) = 53.9	p < .001	V = .19
Other					
¹ More negative scores = less shared parenting					

Breastfeeding support

UK women used more supports overall for breastfeeding than those in Finland, and more formal hospital breastfeeding support. The most common sources of breastfeeding support were Facebook peer support for both groups, and family support for UK participants.

Predicting Parenting Stressors and Strains

Two sets of multiple linear regression analysis were carried out, (Table 6) predicting parenting stressors and role strain, from breastfeeding stress and social support, for the whole sample. Demographic, breastfeeding, social support and interactions were entered in steps.

For parenting stressors, 17% of variance was predicted in the final model. Less financial stability (income) and more education, but not country (Finland, UK) predicted more parenting stress. More breastfeeding stress predicted greater parenting stress. More professional empathic support (Care), and more overall helpfulness of parenting support were related to lower parenting stress but shared parenting support was not.

A larger proportion of variance (23%) was predicted for parental role strain. In this model, being a UK participant, less financial security and more education were significant predictors of increased role strain. Breastfeeding stress was linked with more role strain, whereas higher self-efficacy, more professional support and helpful support predicted lower role strain.

Table 6
Multivariate Regression Analyses Predicting Parenting Stressors and Parental Role Strain for
Breastfeeding women in Finland and the UK

	Parenting stress		Parental role strain	
Model 1 Demographics	Beta ¹ Standardised Coeff	Sig. (p) (95%CI)	Beta ¹ Standardised Coeff	Sig. (p) (95%CI)
<i>Country (Finland/UK)</i>	-.03	.34 (-.88,.30)	.37	< .001(2.6,3.6)
<i>Single parent</i>	-.04	.17 (-5.1,.91)	-.03	.34 (-2.8,-0.9)
<i>Income</i>	-.28	< .001 (-1.5,-.92)	-.10	< .001 (-.58, -.17)
<i>Education</i>	.06	.04 (.06,.53)	.05	.005 (.01,.47)
<i>Adj R² = .10, F(4,857) = 27.77, p < .001</i>			<i>Adj R² = .14, F(4,,1110) = 50.4, p < .001</i>	
Model 2 Breastfeeding				
<i>Breastfeeding stress</i>	.11	.004 (.03,.16)	.20	< .001 (.11,.21)
<i>Breastfeeding self- efficacy</i>	-.07	.06 (-.22,.03)	-.07	.04 (-.17, -.01)
<i>Adj R² = .13, F (2,855) = 15.72, p < .001</i>			<i>Adj R² = .21, F(2,1108) = 43.9, p < .001</i>	
Model 3 Social Support				
<i>Professional support (CARE)</i>	-.15	< .001 (-.12,-.05)	-.08	< .005(-.06, -.01)
<i>Shared parenting</i>	.01	.90 (-.09,.10)	.02	.60 (-.06,.09)
<i>How helpful</i>	-.15	< .001 (-1.6, -.64)	-.10	< .001 (-1.1,-.32)
<i>Adj R² = .17, F(3,852) = 15.73, p < .001</i>			<i>Adj R² = .23, F (3,1105) = 7.6, p < .001</i>	
Model 4 Interactions	Beta ²		Beta ²	
<i>BFStress x CARE</i>	-.23	.16 (-.01,.002)	.01	.87 (-.006, .006)
<i>BFStress x helpful</i>	.12	.71 (-.09,.13)	.37	.17 (-.02,14)

¹ Coefficients reported from Model 3. ² Coefficients reported from Model 4

<i>Parenting stress</i>	<i>Parental role strain</i>
<i>Adj R² = .17, F (2,850) = 1.0, p = .36</i>	<i>Adj R² = .23, F(2,1103) = .94, p = .39</i>
<i>¹Coefficients reported from Model 3. ²Coefficients reported from Model 4</i>	

Moderation effects

To investigate the role of social support as a moderator or ‘buffer’ of the impact of breastfeeding stress on parenting stress, interaction terms for significant support variables were added for parenting stressors and parenting role stressors. Interactions between support and breastfeeding stress did not add to prediction of parenting stress or parenting role strain, suggesting support did not influence the strength of relationship between both types of stress.

Discussion And Conclusions

This was a large-scale, novel survey of parenting and breastfeeding stress, including uniparous and multiparous breastfeeding mothers across the socio-demographic spectrum from Finland and the UK - two northern European countries with different formal support systems and cultural norms related to early parenting and breastfeeding. We identified fewer differences than expected between these countries in terms of stress and perceptions of support, reflecting the complexity of different individual factors in different cultural contexts.

Becoming a new parent is both a rewarding and stressful ‘life event’ [17]. It is important for maternal and infant wellbeing to be aware of potential sources of postnatal parenting stress and strain, and to offer appropriate and helpful care and support when needed. This study found breastfeeding-related stress was a significant predictor of increased parenting stressors and role strain. It is important to consider potential mechanisms for this relationship. Our study was cross-sectional, so we cannot infer causality from our data. It may be that women who are experiencing more parenting stress and role strain related to their living circumstances, health or relationship problems or other stressors, find breastfeeding behaviours more challenging. Conversely, the challenges of breastfeeding may exacerbate existing parenting problems. Successful breastfeeding, with continuous oxytocin release may make it easier to cope with everyday hassles [11, 12]. It would be helpful to consider the relationship between postnatal stress, anxiety and depression, breastfeeding and parenting factors in a longitudinal design, developing the work of Law et al (2019)[34] in larger samples, and considering interactions between women and their partners in this context. Developing confidence in both breastfeeding and parenting is clearly an important method of reducing stress - breastfeeding self-efficacy was related to less parenting stress in our study as found elsewhere [34]. It is interesting to note that the trajectory of reported breastfeeding stress in the postpartum period – with higher stress in the early weeks and 5–6 month period was also similar in the current study to that reported in the same study in uniparous women [34].

Much research into breastfeeding understandably focuses on the health benefits for mother and infant, including the positive psychological impact of breastfeeding and breastmilk on mental wellbeing, [11, 35]. However, it is important to consider wider impacts of breastfeeding in different social contexts, and possible negative stressors and strains on parenting, family, and mother-infant relationships. Studies which do consider negative psychological impacts generally focus on clinical levels of anxiety and depression, rather than stress. Nevertheless, stress is much more ubiquitous, and can be a precursor to clinical psychological distress. Interventions to reduce stress such as relaxation and mindfulness are prevalent and effective, and can be easily delivered by health professionals. Levels of parenting stressors and strains in this study overall were moderate, with mean scores around 10/24 and 15/30 respectively. Stress is a multidimensional construct and reliable measurement of stress is challenging [36]. We focused on both parenting 'stressors' and 'strains' to capture a sources and outcomes, but were not able to benchmark stress levels in our sample. Future work could focus on establishing benchmarks to direct interventions, and on investigating relationships between postnatal stress, anxiety and depression in more depth [37].

As in other studies, we found a positive direct relationship between social support and reducing parenting and breastfeeding stress [7, 8]. Formal support (professional care and empathy) and helpful informal parenting support were both related to reduced parenting stressors and strains. Different systems of health service support in Finland and the UK in the postnatal period may have influenced participants' expectations and perception of the empathic care they received in hospital, baby clinics and the community.

Informal support was used much more than formal support. Both 'instrumental' support, focused on specific stressors such as worries about the baby, sleep problems and loneliness, and 'emotional' support for the parental role are important. Expectations of 'ideal' parenting roles increasingly appear to emphasise the importance of 'shared parenting' [32]. Practical shared parenting (e.g. babysitting, getting up in the night) was not a predictor of reduced stress in this study, although it was notable that partners were described as the main source of parenting support for most participants. Quality of supportive relationships is clearly important. Positive interactions between partners around parenting and breastfeeding may reduce psychological distress for both in the postnatal period and negative long-term health outcomes for children and families [38].

In relation to breastfeeding support, over half of women in Finland and the UK described Facebook groups as their main resource, followed by families. Others have noted the increased prevalence and value of social media support for breastfeeding [39, 40], suggesting the quality and effectiveness and timing of this type of informal support matters - online groups can provide immediate access to advice that may be difficult to obtain 'in person'. However the quality of social media support and advice is variable, depending on the credibility of the source and quality of information presented, and could have negative rather than positive impacts on well-being. Of course, this may also be the case for other formal and informal sources of support.

We anticipated less parenting and breastfeeding stress in Finland, reflecting the country's more positive and supportive policies, norms and attitudes [20, 21, 41]. Both countries focus significant policies and resources on supporting new parents, and breastfeeding, however the UK has lower breastfeeding rates, a larger, more diverse population, higher overall levels of deprivation, and more regional variation in services. Women in Finland reported more shared parenting, more positive attitudes to breastfeeding, and higher breastfeeding self-efficacy than those in the UK as expected. Their childbirth experience, often an indicator of psychological distress [42] was more positive. However we found no difference in parenting stressors. UK women reported more parenting role-strain than those in Finland, but women in Finland reported more breastfeeding stressors, which was unexpected. This may reflect the ubiquity of 'hassles' related to integrating breastfeeding into daily life for new mothers, their unrealistic expectations of breastfeeding as being 'easy' [14] and the demographic characteristics of the samples – women in Finland were younger, and reported less financial security than those in the UK, and potentially more vulnerable to stress.

Weaknesses

This was a cross-sectional study, with unbalanced sampling in terms of numbers and demographic characteristics. Participants were recruited 'informally' rather than via health service routes, to obtain socially diverse samples, however as with many surveys, it proved difficult to achieve this. It is likely that the larger sample in Finland offers a more representative picture of the overall population of breastfeeding women than the much smaller, less-representative sample in the UK. To increase acceptability and completion rates, (acknowledging that new parents often experience time pressures) we adapted some measures potentially reducing reliability and validity.

Conclusions

Information provided from this study highlights the potential for stress in new parents, and potential links between breastfeeding and stress. Stress is relatively easily and economically addressed at scale. These findings suggest it may be useful for those offering support to recommend simple stress management interventions for new parents to prevent more serious psychological distress. Informal and formal organisations providing support for breastfeeding could use this information to support new parents more effectively, promoting greater breastfeeding satisfaction and enhancing psychological well-being in new parents.

Declarations

Ethical Approval and consent to participate:

Research was performed in accordance with relevant guidelines and regulations as stated in the Declaration of Helsinki. All participants provided written informed consent (online) for their participation in the study after having read the study information sheet and consent form provided. The study was approved by The Finnish National Board on Research Integrity (TENK)(Ref 18.11.2016), and the

University of Stirling Ethics of Research Committee Ethics Application: Breastfeeding, Stress and Parent's Support Needs (GUEP 138) 22.05.2017.

Consent for publication: No individual data is presented in this study.

Availability of data and materials: The datasets used and/or analysed during the current study are available from the corresponding author on reasonable request.

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Authors' Contributions: VS and LH devised and developed questionnaires, obtained relevant approvals and disseminated to participants in the UK and Finland respectively. VS analyzed and interpreted the study data, and prepared initial drafts of the study manuscript. LH was a major contributor in writing the manuscript. All authors read and approved the final manuscript.

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Ellen Jardine contributed to questionnaire development and initial piloting.

Norelle Calder-McPhee set up the questionnaire and helped with distribution via social media, and performed preliminary analysis and data checks.

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Figures

Figure 1

Breastfeeding stress comparing the most stressful time for women in Finland and the UK.