

1 Unwanted Intrusive Thoughts of Infant-Related Sexual Harm: Prevalence and Assessment of  
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7 **Unwanted Intrusive Thoughts of Infant-Related Sexual Harm: Prevalence and Assessment**  
8 **of Safety**

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## Abstract

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3 **Objectives:** Unwanted, intrusive thoughts (UITs) of intentional infant-related harm are common  
4 among birthing parents. Evidence to date has failed to find any association with physical  
5 aggression toward the infant. However, the relationship between UITs of infant-related sexual  
6 harm and sexual behaviours towards the infant has yet to be assessed. This is the purpose of the  
7 current study.

8 **Methods:** Data were collected via a prospective, province-wide, unselected cohort of  $N = 763$   
9 English-speaking birthing parents,  $n = 502$  of whom provided data for the current analysis.

10 Interview assessments of UITs of infant-related sexual harm were administered at approximately  
11 7-weeks postpartum and 4-months postpartum. Sexual harming behaviours toward the infant  
12 were assessed via an anonymized questionnaire at the end of the study.

13 **Results:** UITs of infant-related sexual harm were reported by 9.2% ( $n=38$ ; 95% CI [6.6, 12.4])  
14 of participants. We found no evidence of an association between UITs of this nature and sexual  
15 behaviour toward one's infant (Fisher's exact,  $p=1.00$ ). Only one participant reported engaging  
16 in sexual behaviour toward their infant, and they did not report any UITs of infant-related sexual  
17 harm.

18 **Conclusions:** Study findings add to growing evidence that UITs of infant-related harm are  
19 common, and when these thoughts are unwanted and intrusive, they are not associated with an  
20 increased risk of actually harming one's infant. Although findings suggest that this is also true  
21 for UITs of infant-related sexual harm and sexual behaviour, due to the small sample employed  
22 in this research, replication with a larger sample is needed.

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## 1 **Unwanted Intrusive Thoughts of Infant-Related Sexual Harm: Prevalence and Assessment** 2 **of Safety**

3 Unwanted, intrusive thoughts, images and urges (UITs) of infant-related accidental (e.g.,  
4 “What if I trip while carrying my baby?”) and intentional (“What if I step on my baby on  
5 purpose?”) harm are common among new parents, with most (99%) experiencing UITs about  
6 accidental harm, and half (50%) also experiencing UITs of harming their baby on purpose.<sup>1</sup>

7 The content of UITs of intentional infant-related harm typically involves verbal or  
8 physical aggression, sexual touch, or abandonment of one’s infant. Not surprisingly, parents  
9 experience UITs of intentional harm as more distressing than UITs of accidental harm.<sup>1</sup> Among  
10 vulnerable individuals, UITs of infant-related harm can lead to mental health difficulties, in  
11 particular obsessive-compulsive disorder (OCD; an anxiety-related disorder).<sup>2</sup> Negative  
12 misinterpretations of the meaning and frequency of normally-occurring UITs to mean an  
13 individual is responsible for causing or preventing negative outcomes can lead to their  
14 development into obsessions. Individuals will engage in compulsive behaviours in hopes of  
15 reducing the associated distress and the likelihood of the feared negative outcome from  
16 transpiring.<sup>3</sup> In contrast, extant evidence fails to support an association between these thoughts  
17 (or OCD) and any increased risk of harming one’s infant.<sup>1,4</sup> In a sample of 100 birthing parents,  
18 similar proportions of participants who did (28.2%) and did not (27.5%) experience UITs of  
19 intentional infant-related at four weeks postpartum had engaged in a harsh parenting behaviour.<sup>1</sup>  
20 Similarly, in a sample of 340 birthing parents, of those who reported UITs of intentional infant-  
21 related harm (44.4%), 4 participants (2.6%) [95% CI: 0.9% to 5.8%] disclosed engaging in  
22 physical aggression towards their infant and of those who did not endorse these thoughts  
23 (55.6%), 6 participants (3.1%) [95% CI: 1.3% to 6.2%] engaged in this behaviour.<sup>4</sup> However,

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1 this literature is limited to assessments of the association between UITs of physical harm and  
2 actual physical harm. There are no published reports of the relationship between UITs of infant-  
3 related sexual harm and actual sexual abuse of infants.

4 We identified five published reports of the prevalence of UITs of sexual harm among  
5 new birthing parents (e.g., “what if I touch my baby’s genitals in an inappropriate way”).<sup>1,5-8</sup>  
6 Estimates range from 3.8 - 11.6% (i.e., 3.8%, 4.8%, 8.2%, 8.8%, and 11.6%).<sup>1,5-8</sup> Among those  
7 with estimates above 8.0%, participants were provided with perinatal-specific thought lists and  
8 normalizing information about infant-related UITs.<sup>1,6,7</sup> In the two studies reporting prevalence  
9 estimates below 5.0%, this was not provided.<sup>5,8</sup> This suggests that the true prevalence of  
10 postpartum UITs of infant-related sexual harm is most likely 8.0% or greater.

11 Research indicates that 25% to 35% of child sexual abuse (CSA) cases involve children  
12 under the age of seven.<sup>9,10</sup> Despite significant prevalence among younger children, studies  
13 specifically examining CSA in infants remain extremely limited, due in large part to difficulty  
14 detecting these experiences among infants and ethical and legal barriers to conducting research  
15 of this nature.<sup>11</sup> This research gap is underscored by meta-analyses of global CSA prevalence  
16 studies, which find that none of the included studies reported on CSA in populations younger  
17 than 13 years old, making it impossible to determine prevalence rates for infants.<sup>12</sup>

18 Among experts in UITs and OCD, it is well known that neither UITs nor obsessions (i.e.  
19 in OCD), are associated with any increased risk of violence. However, many scholars and  
20 healthcare providers lack this knowledge and fear that UITs of infant-related harm may lead to  
21 infant abuse. This lack of knowledge increases the risk of unnecessary monitoring for child  
22 abuse, and erroneous reports to child protection agencies,<sup>13</sup> measures that can increase the risk of  
23 OCD.<sup>14</sup> This is particularly concerning given that non-dangerous UITs represent the majority of

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1 infant-harming thoughts. Thoughts of sexual harm are often particularly distressing to parents  
2 and alarming to providers. Therefore, a better understanding of the specific association between  
3 sexual UITs and harm is needed. To our knowledge, the current report of findings represents the  
4 first published assessment of the association (if any) between UITs of infant-related sexual harm  
5 and sexual behaviour towards the infant.

6 The objectives of the current study were to assess:

- 7 1) the period prevalence of UITs of infant-related sexual harm;
- 8 2) the association (if any) between the occurrence of UITs of infant-related sexual harm and:
  - 9 a) actual sexual behaviour toward one's infant, and
  - 10 b) the number of weeks to follow-up available for each participant, and
- 11 3) differences in obsessive-compulsive symptom severity between birthing parents who report  
12 UITs of infant-related sexual harm and those who did not.

## 13 **Methods**

### 14 **Study Design**

15 This report of findings is based on a large, prospective, cohort study ( $N=763$ ). Only the  
16 methods relevant to this portion of the research are included here. The complete study protocol  
17 can be found in *BMC Psychiatry*.<sup>15</sup>

### 18 **Ethics**

19 The study was reviewed and approved by the University of British Columbia Behavioural  
20 Research Ethics Board, the Vancouver Island Health Authority, Vancouver Coastal Health  
21 Authority and the Fraser Health Authority. Consent was obtained from participants twice: first  
22 during pregnancy (at 33 weeks gestation) for the prenatal assessment (i.e., in pregnancy), and

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1 again at 7 weeks postpartum for the subsequent postpartum (i.e., following the baby's birth)  
2 assessments.

3 To maximize honest disclosure, data related to infant-harming behaviours was collected

4 anonymously, and multiple steps were taken to reassure participants.<sup>15</sup> A letter indicating

5 approval for this aspect of our study methodology (i.e., the fact that infant abuse data was

6 collected anonymously and were therefore unable to report these behaviours to child protective

7 services) was provided by the Ministry of Children and Family Development in British

8 Columbia, Canada. Although this approach to data collection prevented us from reporting

9 suspected abuse to child protective services (as is required in Canada), it was deemed necessary

10 in order to obtain valid data (i.e., had this data collection not been anonymous, participants

11 would not have disclosed these behaviours to us and consequently, we would not have been able

12 to conduct valid assessments of abuse). See the study protocol for a detailed discussion of these

13 issues.<sup>15</sup> Given the absence of literature on the prevalence of infant-related sexual abuse, *a priori*

14 sample size calculations were not conducted.

## 15 **Inclusion Criteria**

16 Pregnant people, 19 years of age or older, residing in British Columbia (BC), and fluent

17 in English were eligible to participate. For this report of findings, only participants who provided

18 complete data on UITs of infant-related harm up to either the early or the late postpartum

19 assessment were included.

## 20 **Recruitment**

21 Participants were recruited using hospital, community, and rurally-focused approaches.

22 We sought to maximize sample representativeness by recruiting proportionally across the nine

23 hospitals in BC with >1,500 deliveries annually.

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5 **1 Participants**

6 Data were collected from February 09, 2014, to February 14, 2017. Demographic and  
7 reproductive information is reported in Table 1. A total of 1,115 perinatal (pregnant and  
8 postpartum) people expressed interest in the study. Of those, a total of 763 contributed data, with  
9 502 providing data for this report of findings. Of the 763, a total of 636 enrolled and provided  
10 data prior to giving birth (n = 111 dropped out after the early postpartum assessment). One-  
11 hundred and thirteen (n = 113) entered the study in the early postpartum (many because they  
12 gave birth before they were able to complete the prenatal questionnaires or interview). Of these n  
13 = 113, 82 provided both early and late postpartum data. Finally, 13 people provided late  
14 postpartum data only. Those who dropped out did so because they: (a) could not be reached, (b)  
15 were busy or working and no longer able to contribute to the study due to time limitations; (c)  
16 experienced a high-risk pregnancy or had concerns regarding their infant's health and no longer  
17 had the time or resources to participate. It is common to lose participants between the end of  
18 pregnancy and the early postpartum. The demands of early parenting are intense and can make  
19 participation in research too difficult.

20 **16 Procedures**

21 Pregnant people who met the study eligibility requirements were invited to participate.  
22 Consenting participants completed online questionnaires and interviews in late pregnancy, and  
23 twice postpartum. Among those who provided data for this report of findings (N = 502), these  
24 assessments occurred on average in pregnancy at 36.8 weeks' gestation ( $SD = 1.9$ , range = 33.0 -  
25 41.0), and at 9.1 ( $SD = 1.9$ ; range = 5.0 - 15.0) and 21.3 ( $SD = 3.8$ ; range = 11.0 - 38.0) weeks'  
26 postpartum.

27 **23 Assessment tools**

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1 *Demographic, reproductive history, pregnancy and birth-related information:* This  
2 information (e.g., age, marital status, pregnancy complications,) was collected via self-report  
3 forms developed by our team and used extensively in our work.<sup>4,15</sup>

4 *Parenting Behaviours Questionnaire (PBQ)*<sup>15</sup>: The PBQ is a 24-item anonymized self-  
5 report measure developed by our team to assess verbal (e.g., “You screamed at your baby.”),  
6 physical (e.g., “You hit your baby.”; “You shook your baby.”), and sexual (“You touched your  
7 baby in a sexual way”) aggression towards one’s infant. The PBQ includes abuse items and filler  
8 items (positive parenting behaviours) appropriate for infants (e.g., “You put your baby in his/her  
9 bouncy chair.”; “You took your baby for a drive in the car.”). There were a total of 12 aggression  
10 items and 12 filler items. Using a scale ranging from “never” to “10+ times”, participants are  
11 asked to report how often, if at all, they had engaged in each behavior since their baby’s birth.  
12 For the purposes of this analysis, only the sexual harm item (“You touched your baby in a sexual  
13 way.”) was used.

14 *Postpartum Intrusions Interview (PPII)*<sup>1</sup>: The PPII is a semi-structured interview  
15 designed to assess UITs of accidental and intentional infant-related harm (i.e., thought content,  
16 responses to the thoughts, and thought history). The PPII is divided into two sections. The first  
17 section asked about UITs of accidental infant-related harm and the second about UITs of  
18 intentional infant-related harm. The first section includes a list of 25 possible UITs of accidental  
19 infant-related harm followed by 22 possible behavioural responses to these thoughts. The second  
20 section includes 20 possible UITs of intentional infant-related harm followed by the same 22  
21 possible behavioural responses listed in section one. For each set of thoughts and behaviours,  
22 participants are asked about any others, not on the list, that they may have experienced.  
23 Participants indicate the frequency of each thought or behaviour using the following scale:

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1 “never”, “rarely”, “sometimes”, “often”. At the time of the first postpartum interview,  
2 participants were asked about thoughts they had experienced since their baby’s birth. At the time  
3 of the second postpartum interview, they were asked about thoughts they had experienced since  
4 their last interview, or if they had missed the first postpartum interview, since their baby’s birth.  
5 To encourage honest disclosure, the PPII begins by providing participants with normalizing  
6 information about postpartum UITs, including personal examples of UITs experienced by the  
7 interviewer. The PPII also includes questions about the history of their UITs of accidental and  
8 intentional harm and their infant’s health. PPII interviews were conducted by trained research  
9 staff with backgrounds in psychology, most of whom were graduate students in clinical or  
10 counselling psychology. They were supervised by the principal investigator who provided  
11 extensive training in administering the PPII.

12         The PPII includes three UITs related to sexual harm: “touching your baby’s genitals in an  
13 inappropriate way,” “being ‘turned on’ sexually by your baby,” and “touching your baby in a  
14 sexual way.” For the purposes of this report of findings, PPII responses were used to categorize  
15 participants into those who reported UITs of infant physical aggression and infant-related sexual  
16 harm (PHYS+SEX), and those who reported UITs of infant physical aggression only (PHYS  
17 ONLY). The number of participants who reported UITs of sexual harm only was insufficient for  
18 a SEX ONLY group.

19         For complete details about the PPII please see our study protocol.<sup>15</sup>

20         *Yale-Brown Obsessive Compulsive Scale (Y-BOCS)*: The Y-BOCS is an interviewer-  
21 rated, 10-item scale assessing obsessions (5 items) and compulsions (5 items) on a 0 (no  
22 symptoms) to 4 (extreme symptoms) scale, for a total possible score of 0-40.<sup>16</sup> The 5-item  
23 obsessions and compulsions scales are comprised of questions related to: (a) how time

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1 consuming, (b) distressing, and (c) interfering their obsessions and compulsions are, as well as

2 (d) how much control they have over them, and (e) how able they are to resist them (i.e., push

3 the thoughts away for obsessions, and resist engaging in the behaviours for compulsions).

4 Overall, the Y-BOCS demonstrates adequate to excellent psychometric properties.<sup>16,17</sup> The

5 maximum score (as determined by the highest “most intense” score at either postpartum

6 timepoint) for symptom time, distress, and impairment were included in the current analyses.

7 In this study, Y-BOCS items were minorly modified to assess infant-related obsessions

8 and compulsions only. Terminology was adapted to reflect the clinical context; for example,

9 “*obsessive thoughts*” was changed to “*thoughts of harm related to your baby (accidental or*

10 *intentional)*.” Items were also altered for clarity and relevance. For instance, item 6 was updated

11 from “*How much time do you spend performing compulsive behaviours?*” to “*How much time do*

12 *you spend doing the things we just talked about (e.g., checking, avoidance, reassurance seeking)*

13 *in response to thoughts of harm related to your baby (accidental/intentional)?*” Comparable

14 adjustments were made throughout.

15 Participants were administered the Y-BOCS questions twice, once for UITs of accidental

16 infant-related harm and again for UITs of intentional infant-related harm. For each

17 administration, participants were asked to answer Y-BOCS questions with respect to the

18 previous week and most intense week. For the first postpartum interview, they were asked about

19 the most intense week since the baby’s birth. At the second postpartum interview, they were

20 asked about the most intense week since the previous interview. In the current analysis of

21 findings, we focus exclusively on Y-BOCS obsession items related to time, distress and

22 interference. Further, in this data set, Cronbach’s alpha reliability for the time, distress and

23 impairment items ranged from .72 to .78 for both UITs of accidental and intentional infant-

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1 related harm, with one exception. Cronbach's alpha was .59 for the most intense period from  
2 birth to the first postpartum interview for UITs of intentional harm.

### 3 **Data Analysis**

4 Data were analyzed using IBM SPSS Statistics (Version 28).<sup>18</sup> Descriptive statistics were  
5 reported, and 95% binomial confidence intervals (CIs) for prevalence rates were generated using  
6 the Clopper-Pearson exact method. Fisher's exact test was employed to test the association  
7 between UITs of infant-related sexual harm and sexual harming behaviours. Prevalence  
8 estimates for UITs of infant-related sexual harm are provided for period prevalence (i.e., from  
9 the infant's birth to the time of the first postpartum interview and from the infant's birth to the  
10 time of the second postpartum interview).

11 Participants were invited to participate in two postpartum interviews. Not all participants  
12 completed all of the postpartum interviews. Further, because of challenges related to reaching  
13 new parents and scheduling times with them, some overlap between the number of weeks  
14 postpartum when the first and second postpartum interviews occurred (e.g., some participants'  
15 second postpartum interview may have been administered later than another participant's first  
16 postpartum interview). To address these issues, we did the following. First, we report on data  
17 only from participants who provided complete data from their infants' birth up to either the first  
18 or second postpartum interview. As there is also the possibility that participants' endorsement of  
19 UITs infant-related sexual harm was attributable to the number of weeks into their postpartum  
20 they were assessed (i.e., the later into their postpartum that they were assessed, the more likely  
21 they were to have endorsed a UIT of infant-related sexual harm at some point in the postpartum),  
22 limiting the accuracy of the prevalence of these UITs that we report, Mann-Whitney U tests and  
23 logistic regressions were employed to test for any association between the presence of UITs of

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1 infant-related sexual harm and the number of postpartum weeks of follow up. Mann-Whitney U  
2 tests were used to compare Y-BOCS time, distress, and interference scores (based on the  
3 maximum score of the two “most intense” weeks assessed) between participants who: (a)  
4 reported UITs of infant physical aggression and infant-related sexual harm (PHYS+SEX), and  
5 (b) reported UITs of infant physical aggression only (PHYS ONLY). The number of participants  
6 who reported UITs of sexual harm but not physical aggression was insufficient for a SEX ONLY  
7 group.

## 8 **Results**

### 9 **Prevalence of UITs of infant-related sexual harm**

10 Six percent (6.1%;  $n=25$ ; 95% CI [4.0, 8.8]) of study participants who provided  
11 complete data for UITs of infant-related sexual harm from the time of their baby’s birth to the  
12 time of the first postpartum interview ( $n = 412$ ), reported one or more UITs of infant-related  
13 sexual harm. Nine percent (9.2%;  $n =38$ ; 95% CI [6.6, 12.4]) of participants who provided  
14 complete data for UITs of infant-related sexual harm from the time of their baby’s birth to the  
15 time of the second postpartum interview ( $n = 414$ ), reported one or more UITs of infant-related  
16 sexual harm. Of the  $n = 324$  participants who completed both the early and the late postpartum  
17 PPII, and provided complete data for both time points, 4.8% ( $n =16$ ; 95% CI [2.8, 7.7]) reported  
18 UITs of infant-related sexual harm at the early postpartum assessment only, 2.5% ( $n =8$ ; 95% CI  
19 [1.1, 4.8]) at the late postpartum assessment only, and 2.2% ( $n =7$ ; 95% CI [.9, 4.4]) at both.

20 The period prevalence of specific UITs reported at any time from birth to the time of the  
21 second postpartum interview were as follows: “touching your baby’s genitals in an inappropriate  
22 way”; 8.5% ( $n =35$ ; 95% CI [6.0, 11.6]), “being ‘turned on’ sexually by your baby”; 2.9%

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1 ( $n=12$ ; 95% CI [1.5, 5.0]), and “touching your baby in a sexual way”; 1.7% ( $n=7$ ; 95% CI [0.7,  
2 3.5]).

3 No association between participants’ self-report of UITs of infant-related sexual harm  
4 and number of weeks postpartum was found, either: (a) when comparing participants who did  
5 ( $M=21.21$  weeks,  $SD=3.88$ ) and did not ( $M=21.31$  weeks,  $SD=3.81$ ) report these thoughts,  
6  $z=-.301$ ,  $p=.763$ , nor (b) when using weeks postpartum as a predictor of UITs of infant-related  
7 sexual harm via logistic regression,  $\chi^2(1)=0.03$ ,  $p=.873$ .

### 8 **Association with infant sexual harm**

9 Among the  $N = 502$  participants, a total of  $n=330$  participants provided data related to  
10 their UITs up to and including the second timepoint and data related to infant-harming  
11 behaviours (i.e., completed the PBQ). Of these, only one participant reported touching their  
12 infant sexually (on 10+ occasions). No UITs of infant-related sexual harm were reported by this  
13 participant. Consequently, Fisher's exact tests revealed no association between UITs of infant  
14 sexual harm and actual sexual behaviour toward the infant ( $p=1.00$ , 95% CI [-.0003, .009]).

### 15 **Obsessive-compulsive symptom severity**

16 Table 2 reports median maximum postpartum (any timepoint) Y-BOCS time, distress,  
17 and impairment scores associated with UITs of infant-related intentional harm, stratified by  
18 thought type (i.e., physical harm only;  $n=138$  and both physical and sexual harm;  $n=33$ ).  
19 Participants who reported UITs of both physical and sexual harm reported experiencing these  
20 thoughts as more time consuming ( $z=-3.46$ ,  $p<.001$ ), but not more distressing or impairing  
21 ( $p=.083$  and  $.956$  respectively) compared with those who reported UITs of physical harm only.

## 22 **Discussion**

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1 The period prevalence estimate for UITs of infant-related sexual harm from birth to, on  
2 average, 5-months postpartum obtained in this study (i.e., 9.2%), is consistent with previous  
3 estimates obtained in studies of new birthing parents where participants were provided with  
4 perinatal-specific thought lists and normalizing information about infant-related UITs (as was the  
5 case in our study).<sup>1,5,6</sup> In the two studies reporting prevalence estimates =below 5.0%, perinatal-  
6 specific thought lists and normalizing information werenot provided.<sup>4,7</sup> As discussed in the  
7 introduction, the extant data suggests that providing perinatal-specific thought lists and  
8 normalizing information likely enhance disclosure. Consequently, our findings add to the extant  
9 research suggesting that the prevalence of postpartum UITs of sexual harm likely falls between  
10 8.0% and 12.0%.

11 In the two published studies assessing the relationship of UITs of infant-related harm  
12 with actual harming behaviours ( $N = 100$  and  $N = 388$ )<sup>1,4</sup> no evidence of a relationship with  
13 actual harm was found. However, both investigated the relationship between UITs of infant-  
14 related physical harm and actual physical aggression towards the infant. This report of findings  
15 represents (to our knowledge) the first assessment of the relationship of UITs of infant-related  
16 sexual harm with sexually harming behaviours. Consistent with our hypothesis, the occurrence of  
17 UITs of infant-related sexual harm was not associated with sexually harming one's infant.  
18 Although the precision of our estimate (i.e., 95% CI [-.0003, .009]) cannot rule out this  
19 possibility, our findings add to accumulating evidence indicating that UITs of infant-related  
20 harm are not associated with an increased risk to infant safety, and provide additional  
21 reassurance that this is true of UITs of infant-related sexual harm also.

22 Although more time consuming, the presence of UITs of infant-related sexual harm was  
23 not associated with higher levels of distress or impairment in this sample. It is not surprising that

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1 people who report UITs of both physical and sexual harm experience them as more time  
2 consuming than people who report UITs of physical, infant-related harm only. Experiencing  
3 UITs across a broader range of content areas would likely render them more time-consuming.

## 4 **Strengths**

5 To our knowledge, this is the first published report of an assessment of the relationship of  
6 UITs of infant-related sexual harm with sexual harming behaviours towards one's infant. Our  
7 findings also provide additional evidence regarding the prevalence of UITs of infant-related  
8 sexual harm among birthing parents of infants.

9 An important methodological aspect of this study is that data related to child harming  
10 behaviours was collected anonymously. This is a challenging aspect of any study of child abuse.  
11 In order to learn about the prevalence of these events, parents must be willing to disclose these  
12 behaviours. When data is collected openly (i.e., without anonymity), parents are highly unlikely  
13 to engage in honest disclosure. In our opinion, collecting abuse data in such a way that the abuse  
14 can be reported would: (a) result in incomplete and unreliable data, and (b) given the low  
15 probability of disclosure, also fail to result in the discovery or prevention of any current or  
16 ongoing abuse. As such, we deem our approach to be the most ethical (i.e., it is better for the  
17 health and safety of children to learn about the nature and prevalence of abuse than to collect  
18 data that is non-informative and unlikely to result in learning about current, ongoing abuse).  
19 Many international studies of infant abuse have also taken this approach, and our team has now  
20 given a talk at an ethics conference about our approach.<sup>19–22</sup>

## 21 **Limitations and Future Directions**

22 As is true of all studies of child abuse, underreporting of UITs of harm and infant-  
23 harming behaviours is possible, particularly given the use of self-report for sensitive disclosures

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1 such as infant sexual harm. However, our use of multiple strategies designed to maximize  
2 disclosure likely limited this.

3         While numerous efforts were made to recruit a representative sample of birthing people  
4 in BC (e.g., proportional recruitment across hospitals in BC), quite a few participants provided  
5 incomplete data or dropped out part way through the study. In addition, the study sample was  
6 fairly wealthy and well-educated. Although it is common for wealthier and more educated people  
7 to participate in research, and loss to follow-up is common among participants who are parents  
8 of newborns, both nevertheless impact generalizability. For example, external stressors such as  
9 financial instability and low social support may impact the occurrence of UITs of infant-related  
10 harm and infant harming behaviours.<sup>1</sup> Our sample is also limited to birthing parents. Future work  
11 should include non-birthing parents and increase sample diversity to be representative of  
12 demographic characteristics, like income and education, of the BC population.

13         The timing of the study's postpartum assessments varied significantly. Although we  
14 found no relationship between the likelihood of reporting UITs of infant-related sexual harm and  
15 the follow-up period of assessments, future research will, ideally, provide more detailed  
16 estimates of the point and period prevalence of UITs of infant-related sexual harm by week or  
17 month postpartum.

18         Although we failed to find a relationship between reports of UITs of infant-related sexual  
19 harm and actual sexual behaviour towards one's infant, sample sizes were too small to rule out  
20 this possibility. Replication of our findings in a larger sample is needed to confirm this  
21 relationship, although given the paucity of information on the prevalence of infant sexual harm,  
22 the sample size needed to adequately detect this behavior (especially when studying the behavior

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3  
1 of parents versus other infant caregivers), remains unknown. Large-scale studies on sexual abuse  
2 among infants are needed to inform future studies on this topic.

### 3 **Conclusion and Clinical Implications**

4 Study findings support existing estimates of the prevalence of UITs of infant-related  
5 sexual harm and add to evidence indicating that UITs of infant-related harm do not represent a  
6 risk to infant safety. Even once the principle is understood that UITs are a common experience,  
7 this form of UIT can be difficult for parents to disclose, due to fears that they may comprise a  
8 distinct category of experience, concerns which can be mirrored by healthcare professionals. The  
9 knowledge that they are not in fact unique and dangerous is important for postpartum  
10 individuals, their families, perinatal/maternity care providers, child protection workers, and  
11 policy makers. However, larger, more diverse samples are required to be sure of this conclusion.

12

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 2 Safety

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1 Table 1. Demographic Information, Reproductive History, & Current Perinatal Period ( $N = 502$ )

Demographic characteristics	<i>n</i>	%
Currently Partnered	462	92.2
Education		
Did not complete high school	8	1.6
High school	33	6.6
Undergraduate or college	247	49.3
Masters or PhD	195	39.0
Data missing		
Cultural heritage		
European	277	55.3
Asian	114	22.8
Indigenous	11	2.2
Latin, Central or South American	10	2.0
Mixed heritage	44	8.8
Not listed	27	5.4
Age in years	$M = 32.7 (SD = 4.7)$	Range = 18.0 – 46.8
Reproductive history	<i>n</i>	%
Primiparous	284	56.7
Prior history of miscarriage	118	23.6
Current pregnancy, birth and postpartum	<i>n</i>	%
Mode of delivery		
Vaginal Delivery	294	58.7
Cesarian Delivery	184	36.8
Pregnancy complications	172	34.3
Labour/Delivery complications	165	32.9
Episiotomy performed	45	9.0
Parent re-admission to the hospital	38	7.6
Baby admitted to intensive or special care unit	61	12.2

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1 *Note:* Demographic variables data were missing for  $n = 15-18$  participants and data for  
2 reproductive history and current perinatal period variables were missing for  $n = 20-24$   
3 participants.

4

5

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1 Table 2. Y-BOCS Time, Distress, and Impairment by UIT type;  $n = 171$

2

	PHYS ONLY $n = 138$		PHYS+SEX $n = 33$		$z$	$p$
	Median (IQR)	Mean Rank	Median (IQR)	Mean Rank		
Time	1.1 (0.2)	80.14	1.3 (0.4)	110.52	-3.46	< <b>0.001</b> ** *
Distress	2.0 (1.0)	82.98	2.0 (1.0)	98.62	-1.73	0.083
Impairment	0.0 (1.0)	86.09	0.0 (1.0)	85.64	-0.055	0.956

3 *Note:* Reported scores and group comparisons are based on maximum Y-BOCS obsessions  
 4 scores in the postpartum associated with UITs of intentional infant-related harm, with possible  
 5 scores for each dimension ranging from 0 to 4.

6 \*\*\* Significant at the  $p < .001$  level

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3

1

### **Clinical Points**

2

3 • Nearly 10% of new birthing parents experience unwanted and intrusive thoughts (UITs) of  
4 sexual harm related to their baby.

5

6 • Similarly to UITs of physical aggression towards the infant, which are not associated with an  
7 increased risk of physical harm, thoughts of sexual harm, when they are unwanted and  
8 intrusive, are not associated with touching one's baby in a sexual way.

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## References

2

- 3 1. Fairbrother N, Woody SR. New mothers' thoughts of harm related to the newborn. *Arch*  
4 *Womens Ment Health*. 2008;11(3):221-229. doi:10.1007/s00737-008-0016-7
- 5 2. American Psychiatric Association. *Diagnostic and Statistical Manual of Mental Disorders*.  
6 DSM-5-TR. American Psychiatric Association Publishing; 2022.  
7 doi:10.1176/appi.books.9780890425787
- 8 3. Rachman S. A cognitive theory of obsessions: elaborations. *Behaviour Research and*  
9 *Therapy*. 1998;36(4):385-401. doi:10.1016/S0005-7967(97)10041-9
- 10 4. Fairbrother N, Collardeau F, Woody SR, Wolfe DA, Fawcett JM. Postpartum Thoughts of  
11 Infant-Related Harm and Obsessive-Compulsive Disorder: Relation to Maternal Physical  
12 Aggression Toward the Infant. *J Clin Psychiatry*. 2022;83(2):39944.  
13 doi:10.4088/JCP.21m14006
- 14 5. Abramowitz JS, Schwartz SA, Moore KM. Obsessional Thoughts in Postpartum Females  
15 and Their Partners: Content, Severity, and Relationship with Depression. *Journal of Clinical*  
16 *Psychology in Medical Settings*. 2003;10(3):157-164. doi:1068-9583/03/0900-0157/0
- 17 6. Abramowitz JS, Khandker M, Nelson CA, Deacon BJ, Rygwall R. The role of cognitive  
18 factors in the pathogenesis of obsessive-compulsive symptoms: A prospective study.  
19 *Behaviour Research and Therapy*. 2006;44(9):1361-1374. doi:10.1016/j.brat.2005.09.011
- 20 7. Miller ML, O'Hara MW. Obsessive-compulsive symptoms, intrusive thoughts and  
21 depressive symptoms: a longitudinal study examining relation to maternal responsiveness.  
22 *Journal of Reproductive and Infant Psychology*. 2020;38(3):226-242.  
23 doi:10.1080/02646838.2019.1652255
- 24 8. Zambaldi CF, Cantilino A, Montenegro AC, Paes JA, de Albuquerque TLC, Sougey EB.  
25 Postpartum obsessive-compulsive disorder: prevalence and clinical characteristics. *Compr*  
26 *Psychiatry*. 2009;50(6):503-509. doi:10.1016/j.comppsy.2008.11.014
- 27 9. Fontanella C, Harrington D, Zuravin SJ. Gender Differences in the Characteristics and  
28 Outcomes of Sexually Abused Preschoolers. *Journal of Child Sexual Abuse*. 2001;9(2):21-  
29 40. doi:10.1300/J070v09n02\_02
- 30 10. Brilleslijper-Kater SN, Friedrich WN, Corwin DL. Sexual knowledge and emotional reaction  
31 as indicators of sexual abuse in young children: theory and research challenges. *Child Abuse*  
32 *& Neglect*. 2004;28(10):1007-1017. doi:10.1016/j.chiabu.2004.06.005
- 33 11. Van Duin EM, Verlinden E, Tsang VMW, et al. A sexual abuse case series of infants and  
34 toddlers by a professional caregiver: A qualitative analysis of parents' experiences during the  
35 initial crisis period post-discovery. *Child Abuse & Neglect*. 2022;125:105460.  
36 doi:10.1016/j.chiabu.2021.105460

- 1 Unwanted Intrusive Thoughts of Infant-Related Sexual Harm: Prevalence and Assessment of  
2 Safety  
3
- 1 12. Barth J, Bermetz L, Heim E, Trelle S, Tonia T. The current prevalence of child sexual abuse  
2 worldwide: a systematic review and meta-analysis. *Int J Public Health*. 2013;58(3):469-483.  
3 doi:10.1007/s00038-012-0426-1
- 4 13. Mulcahy M, Rees C, Galbally M, Anderson R. Health practitioners' recognition and  
5 management of postpartum obsessive-compulsive thoughts of infant harm. *Arch Womens*  
6 *Ment Health*. 2020;23(5):719-726. doi:10.1007/s00737-020-01026-y
- 7 14. Challacombe FL, Wroe AL. A hidden problem: consequences of the misdiagnosis of  
8 perinatal obsessive-compulsive disorder. *Br J Gen Pract*. 2013;63(610):275-276.  
9 doi:10.3399/bjgp13X667376
- 10 15. Collardeau F, Corbyn B, Abramowitz J, Janssen PA, Woody S, Fairbrother N. Maternal  
11 unwanted and intrusive thoughts of infant-related harm, obsessive-compulsive disorder and  
12 depression in the perinatal period: study protocol. *BMC Psychiatry*. 2019;19(1):94.  
13 doi:10.1186/s12888-019-2067-x
- 14 16. Goodman W, Price L, Rasmussen S, et al. The Yale-Brown Obsessive Compulsive Scale: I.  
15 Development, Use, and Reliability. *Archives of general psychiatry*. 1989;46:1006-1011.
- 16 17. Taylor S. Assessment of obsessions and compulsions: Reliability, validity, and sensitivity to  
17 treatment effects. *Clinical Psychology Review*. 1995;15(4):261-296. doi:10.1016/0272-  
18 7358(95)00015-H
- 19 18. IBM Corp. IBM SPSS Statistics for Macintosh, Version 28.0. Published online Released  
20 2021.
- 21 19. Kita S, Chan KL, Tobe H, et al. A Follow-Up Study on the Continuity and Spillover Effects  
22 of Intimate Partner Violence During Pregnancy on Postnatal Child Abuse. *J Interpers*  
23 *Violence*. 2021;36(13-14):NP6904-NP6927. doi:10.1177/0886260518821460
- 24 20. Regalado M, Sareen H, Inkelas M, Wissow LS, Halfon N. Parents' Discipline of Young  
25 Children: Results From the National Survey of Early Childhood Health. *Pediatrics*.  
26 2004;113(Supplement\_5):1952-1958. doi:10.1542/peds.113.S5.1952
- 27 21. Zolotor AJ, Robinson TW, Runyan DK, Barr RG, Murphy RA. The Emergence of Spanking  
28 Among a Representative Sample of Children Under 2 Years of Age in North Carolina. *Front*  
29 *Psychiatry*. 2011;2. doi:10.3389/fpsy.2011.00036
- 30 22. Fairbrother N. Ethical issues in the assessment of postpartum maternal aggression. Presented  
31 at: The 2019 Annual Conference and General Meeting of the Canadian Association of  
32 Research Ethics Boards (CAREB-ACCER); April 2019; Winnipeg, MB.

33