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3 **Injury to Women in Childbirth: The Consequences of Maternal Birth Trauma**

4 **Evidence submission from The British Society of Urogynaecology (www.bsug.org.uk)**

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6 While the reports of baby deaths in Morecambe Bay, Shrewsbury and elsewhere are of great
7 concern, attention must also be paid to the increasing rate of injury/trauma to women
8 during childbirth. We as urogynaecologists see many young women with the distressing
9 consequences of birth trauma and this is likely to be a small proportion of the total number
10 affected as many suffer in silence. Submissions from MASIC and Birthrights will explain
11 more about women's experiences and their stories are 'harrowing'. This is arguably part of
12 the same problem as for baby deaths i.e. in some cases suboptimal care of pregnant women.
13 We would like to provide evidence about how and why this is happening and what needs to
14 be done to reduce the risks.

15 Firstly, the rate of maternal birth trauma has increased in recent years with the previous
16 Chief Medical Officer (CMO) reporting the consequences (in 2104) i.e. that 33% and 10% of
17 women will have urinary and faecal incontinence respectively at 6 weeks postpartum and 10
18 years later 20% still report urinary and 3% faecal incontinence. As she stated: "*This is*
19 *morbidity, not mortality, but the number of women affected is enormous*".

20 Similarly, for pelvic organ prolapse up to 31% will have symptoms at 12 and 20 years, even
21 after just one delivery. That is rarely seen in women who have not been pregnant; vaginal
22 childbirth is known to be the main factor associated with these conditions. As mentioned,
23 the incidence is increasing.

24 While the committee's work will focus on safety for babies we feel that safety for women
25 should also be highlighted, particularly the consequences of birth trauma i.e. pelvic organ
26 prolapse, urinary and faecal incontinence. These are conditions that represent a significant
27 public health burden as well as great personal distress. Surgical rates for these childbirth-
28 related problems have risen, and this has been predicted to increase further as the
29 population ages. Results of surgery are inconsistent with a risk of complications and the
30 need for further operations over time. This is at considerable cost to the patient, healthcare
31 providers and society. An attempt to improve success rates by using vaginal mesh has
32 resulted in serious complications for some women, as reported in the Cumberlege inquiry.

33 The understanding of the mechanisms/pathophysiology of birth trauma has grown in recent
34 years and is known to result in symptoms e.g incontinence and prolapse by 6-12 months
35 after delivery in 35% of those with severe injuries compared to 15% with minor injuries.
36 Unsurprisingly these have significant physical and psychological consequences for young
37 women and can lead to many years of repeated treatments including surgery.

38 For example problems reported by those who'd suffered an obstetric anal sphincter injury
39 (OASI) by the UK Birth Trauma Association (2017) include pain, difficulty establishing
40 breastfeeding, poor bonding with their baby, poor bladder and bowel control, sex and
41 relationship difficulties, tokophobia/fear of another pregnancy, post-traumatic stress and
42 post-natal depression, all of which can seriously affect quality of life.

43 There is arguably now a higher risk population for birth trauma. There are several identified
44 risk factors which now include increasing age at first delivery, obesity and larger birthweights
45 (National Statistics UK 2011) along with an increasing rate of instrumental delivery,
46 particularly forceps.

47 **Are Women informed of the Risks?**

48 It appears not, despite the UK's Supreme Court ruling which states that: *Where either*
49 *mother or child is at heightened risk from vaginal delivery, doctors should volunteer the pros*
50 *and cons of that option compared to a caesarean.* (Montgomery v Lanarkshire Health Board
51 UK 2015).

52 Studies, including a survey from Birthrights and MUMSNET suggest that the risks of vaginal
53 delivery with respect to trauma and its consequences are not routinely discussed with
54 women antenatally even in those at higher risk. They should be informed as per the
55 Montgomery ruling, and women want this information. For example, in a recent qualitative
56 study, *'all women wanted to know their risk of developing pelvic floor dysfunction (i.e.*
57 *incontinence and prolapse) to help make informed decisions'*. They also reported that
58 knowing their risk would motivate them to undertake preventative strategies such as pelvic
59 floor muscle training/exercises. However, midwives and obstetricians had concerns that
60 providing such information would result in more requests for caesarean section. This could
61 be an incorrect assumption as most women did not mention caesarean in this study nor in
62 the OASI Care Bundle study of over 55 000 women (see below); even after explaining the risk
63 of bowel/faecal incontinence following an OASI, there was no increase in caesarean rate.

64 **STRATEGIES FOR PREVENTION OF PFD**

65 Pelvic Floor Muscle Training [PFMT]

66 There is good evidence that antenatal PFMT can prevent urinary incontinence in late
67 pregnancy and postpartum, and reduce pelvic organ prolapse symptoms and the need for
68 further treatment.

69 Current NICE Guidelines and the International Consultation on Incontinence recommend
70 that all women in their first pregnancy should be offered supervised PFMT with a

71 physiotherapist or specialist nurse. This is currently being included in the NHS's Long-Term
72 plan and is welcomed.

73 Avoiding smoking, constipation and maintaining a normal weight/BMI can also help as part
74 of a prevention strategy.

75 How can trauma be prevented at childbirth?

- 76 • Preventing OASI using the 'OASI Care Bundle' which includes good information and
77 communication, manual perineal protection/'hands on the perineum' and, only
78 when indicated, episiotomy at a 60 degree angle. Perineal and rectal examinations
79 are important to prevent missed tears as these are the ones that can result in faecal
80 incontinence. The Care Bundle, which was developed by the RCOG and RCM with
81 the support of NHS England and the CQC, has been shown to reduce the incidence of
82 OASI, similar to the findings of several studies from Scandanavia. However there has
83 been negative social media comments about this form of prevention from some
84 midwives and obstetricians claiming that it is not evidence-based. This claim has
85 been strongly refuted by the RCOG/RCM Care Bundle working group in recent
86 correspondence in the journal 'Midwifery'.
- 87 • Instrumental Delivery: except where delivery is urgent i.e. for fetal distress,
88 vacuum/ventouse is preferable to forceps as it has been shown to have a lower rate
89 of OASI and pelvic floor muscle damage. However, forceps rates in the UK have risen
90 in recent years compared with other countries where vacuum is the instrument of
91 choice. The reason for this difference is unclear.
- 92 • Episiotomy to be used with instrumental delivery: the highest rate of OASI has been
93 reported in women delivered with forceps *without* an episiotomy. Although clinical

94 guidelines recommend episiotomy with forceps, as evidence shows this reduces
95 rates of OASI, greater awareness and education is needed.

96 **What about those at high risk of birth trauma?**

97 As mentioned, those at high risk should be informed as per the Montgomery Supreme Court
98 ruling and if these risks are deemed 'material' by the patient, then should she be informed
99 of the protective effect of a planned caesarean section. This needs to be in conjunction with
100 a discussion of the risks and complications of a planned caesarean as well to allow an
101 informed decision to be made (see below).

102 **Does Caesarean Section prevent trauma and its consequences?**

103 The evidence suggests that planned caesarean provides protection against OASI, a major
104 cause of faecal incontinence, and a consistent protective effect for the prevention of pelvic
105 organ prolapse. However, many midwives and obstetricians fear that mention of the
106 protective effect of planned caesarean will lead to rising requests despite evidence
107 suggesting the contrary (above).

108

109 **Risks and Costs of Planned Caesarean Section (CS)**

110 While there are understandable concerns about morbidity following caesarean section, this
111 discussion needs to be in the context of what the patient considers to be of importance. In a
112 report from the patient group Birthrights (2018) women stated that during counselling about
113 caesarean section there was: "*a tendency for the risks of caesarean to be emphasised or*
114 *exaggerated*".

115 The following facts should be considered:

- 116 • Planned *as opposed to in-labour* CS: the incidence of surgical complications is low.
- 117 • Placental complications especially a deeply adherent placenta (placenta accreta),
- 118 which can cause haemorrhage if not diagnosed before delivery, can occur with
- 119 multiple CS's. However, World Population statistics (2015) show that in developed
- 120 countries the fertility rate is 2-3 babies per woman. Should they all be delivered by
- 121 planned CS, the risk of accreta with the 2nd and 3rd delivery is only 0.24%, 0.31%
- 122 respectively and so for the individual woman, the risk is low.
- 123 • Childhood illnesses e.g. asthma, diabetes, obesity and, stillbirth in the next
- 124 pregnancy have been cited as reasons to avoid caesarean section. However, these
- 125 are statistical associations only, with *no* evidence of a causal relationship between
- 126 those illnesses and planned caesarean section. The same applies to the association
- 127 with the fetal microbiome where there is much conflicting evidence and again no
- 128 evidence of causality.
- 129 • Cost: Again, the evidence is unclear. While NICE state that planned caesarean is
- 130 approximately £700 GBP more expensive than vaginal delivery
- 131 ([https://www.nice.org.uk/guidance/cg132/resources/costing-report-pdf-](https://www.nice.org.uk/guidance/cg132/resources/costing-report-pdf-184766797)
- 132 [184766797](https://www.nice.org.uk/guidance/cg132/resources/costing-report-pdf-184766797)), in a sensitivity analysis of this guidance when litigation and
- 133 'compensation for harm' costs are included, planned caesarean is found to be £439
- 134 GBP *less* expensive than vaginal delivery.
- 135 In addition, costs for the treatment of adverse events, mental health support for
- 136 post-traumatic stress disorder (PTSD) (both more common after vaginal delivery
- 137 than planned caesarean), and the long-term cost-avoidance for pelvic organ
- 138 prolapse surgery have not been included in the NICE guidance. Therefore, for those
- 139 women at highest risk of birth trauma and its consequences, planned caesarean is
- 140 arguably cost-effective.

141 **Recommendations:**

142 BSUG proposes that prevention of birth trauma and its consequences should be discussed
143 with every pregnant woman as part of her antenatal care. This does not appear to be
144 happening possibly because of the anxiety amongst healthcare professionals that this will
145 lead to more requests for planned caesarean. However as mentioned above there is no
146 evidence to support this.

147 Identifying those at risk and providing information can help with counselling and prevention
148 strategies such as pelvic floor muscle training, weight control and delivery management e.g.
149 ventouse rather than forceps, OASI Care Bundle and for those women at highest risk of birth
150 trauma, planned caesarean section; that should be mentioned and women allowed a choice
151 regarding her type of delivery.

152 In an increasingly higher risk population for birth trauma and its consequences e.g.
153 incontinence and pelvic organ prolapse, the risks of vaginal delivery as well as those of
154 planned caesarean section should be discussed as per the UK's Supreme Court ruling and
155 women be given the right to choose.

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157 **References can be supplied on request**

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160 *15 September 2020*