REDUCING THE COSTS ASSOCIATED WITH CAESAREAN SECTIONS AT FULL DILATION

COMPLICATIONS IN CAESAREAN SECTION AT FULL DILATION (CSFD)

CSFD occur in approximately 2% of all deliveries¹, and carries a high risk of complications for both mother and baby².

Evidence suggests that up to 57 per cent of mothers who undergo a CSFD experience some kind of maternal morbidity³, at considerable cost to the NHS.

Maternal Complications³,⁴
- Extensions/Tears to uterus, vagina & cervix
- Post-Partum Haemorrhage
- Blood transfusions

Fetal Complications³,⁴,⁵
- Risk of fetal trauma, leading to brain damage or death
- Increased admissions to neonatal intensive care

Hospital Resource Costs⁶,⁷,⁸
- Increased operating time
- Increased length of hospital stay

Intra-operative complications account for the majority of morbidity related to a CSFD and often occur as a result of the increased manipulation required to deliver the fetal head which is deeply impacted in the pelvis.

FETAL PILLOW™ - A SAFE CHOICE FOR A DIFFICULT CAESAREAN SECTION

The Fetal Pillow is a novel device that gently elevates the fetal head out from the pelvis, making the delivery safer, easier and less traumatic.

Simple Deployment

Deployment of the FETAL PILLOW is simple and as it is performed during patient preparation, its use does not impact on time to starting the procedure.

Safer, Controlled Elevation

The FETAL PILLOW enables gentle and controlled elevation, designed to ensure safer, easier delivery, helping to reduce trauma to the mother and baby.

Shorter Operating Time and Length of Stay

Use of the FETAL PILLOW for Caesarean Section at Full Dilation can help to reduce operating time & length of hospital stay through a reduction in intra-partum and post-partum complications.

Contact Us

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**REDUCING RISKS USING THE FETAL PILLOW™**

The Fetal Pillow has shown to enable an easier delivery, improve safety and reduce complications during a Caesarean Section at Full Dilation. A recent Randomized Controlled Trial of 240 patients showed the **Fetal Pillow significantly reduces the risk of intra-operative complications associated with Caesarean Section at Full Dilation**.

**Maternal Outcomes**
- 77% Reduction in major uterine wound extensions (5% vs 32.5%)
- 71% Reduction in blood loss >1000cc (4.2% vs 21.7%)
- 72% Reduction in need for blood transfusion (3.3% vs 18.3%)

**Fetal Outcomes**
- 26% Reduction in the incidence of NICU admission (10.8% vs 17.5%)
- 78% Improvement in APGAR score ≤3 at 5mins (0.8% vs 6.7%)

**Hospital Resource Outcomes**
- Significantly reduced operating time (32mins vs 53mins)
- Significantly reduced length of stay (3.9 vs 5.0 days)

(Seal et al, 2016)

**DELIVERING FINANCIAL SAVINGS AND CREATING HOSPITAL EFFICIENCIES**

Reducing healthcare resource costs to manage the complications associated with CSFD using the Fetal Pillow can deliver significant financial savings for a hospital.

- $6,608 using conventional techniques
- $4,700 using the Fetal Pillow

**TOTAL SAVING PER PATIENT $1,909**

50 Patients treated with the Fetal Pillow will result in
- 18 hours of operating time saved
- 54 hospital bed days saved

**COST IMPACT ANALYSIS AUSTRALIA:**

Full Dilatation Caesarean Section with and without use of the Fetal Pillow

<table>
<thead>
<tr>
<th></th>
<th>(ST2 CS) No Fetal Pillow</th>
<th>(ST2 SC) With Fetal Pillow</th>
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</thead>
<tbody>
<tr>
<td>Re-admission</td>
<td>$3,500</td>
<td>$1,500</td>
</tr>
<tr>
<td>NICU Admission</td>
<td>$2,500</td>
<td>$1,000</td>
</tr>
<tr>
<td>NICU Admission</td>
<td>$2,000</td>
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</tr>
<tr>
<td>Incidence of Blood transfusion</td>
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</tr>
<tr>
<td>Consumable use</td>
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<td>$0</td>
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<tr>
<td>Bed Use</td>
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</tr>
<tr>
<td>Theatre</td>
<td>$1,000</td>
<td>$0</td>
</tr>
</tbody>
</table>

**TOTAL SAVING PER PATIENT $1,909**

References:
2. Perigialiots V; Vachos O G; Rodolakis A; Hadjouleas D; Thomakos N. First versus second stage C/S maternal and neonatal morbidity: a systematic review and meta-analysis. European Journal of Obstetrics & Gynecology and Reproductive Biology, 2014; 175: 15–24
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8. Seal S.L:: Dey A; Barman S.C.; Kamilia G; Mukherji J; Onwude J. Elevation of fetal head with a Fetal Pillow during caesarean section at full cervical dilatation, a randomized controlled trial. International Journal of Gynecology and Obstetrics, 2016; 133: 178–182

Disclaimer: The sample costsings and impact model are for illustrate purposes only. The actual costs might be higher or lower depending upon local practices and costs. These costs are taken from the NHS hospital reference costs. Full reference for costings available on request.

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