

Leukomed Sorbact Case Study

Breakdown of pilot figures - Barking,
Havering and Redbridge University
Hospitals NHS Trust

Table 1 Summary of Clinical Findings Between 2021 (Mepore Wound Dressings) and 2022 (Leukomed Sorbact Wound Dressings)

	2021	2022	Rate of Improvement (%)
Number of CS procedures	2436	2368	
Number (rate) of Caesarean SSIs (total)	149 (6.1%)	91 (3.8%)	37.7% Reduction
Number (rate) of Caesarean SSI (elective caesareans)	46 (5.4%)	28 (3%)	44.4% Reduction
Number (rate) of CS SSI (emergency caesarean)	103 (6.8%)	63 (4.4%)	35.3% Reduction
Number (rate) of patients readmitted for SSI	31 (1.27%)	22 (0.88%)	30.7% Reduction
Number of readmission episodes for SSI	34	24	29.4% Reduction
Number of readmission bed days for SSI (days)	107	66	38.3% Reduction
Average length of stay for SSI readmission (days)	3.1 days	2.8 days	9.7% Reduction
Number (rate) of CS SSI patients who had additional antibiotics	57 (2.3%)	39 (1.6%)	30.4% Reduction
Number of CS patients who developed wound dehiscence	6	1	83.3% Reduction

Magro M: *Reducing Surgical Site Infections Post-Caesarean Section* - [Reducing Surgical Site Infections Post-Caesarean Section | IJWH \(dovepress.com\)](https://www.dovepress.com/Reducing-Surgical-Site-Infections-Post-Caesarean-Section)

Re-admission Bed Days

SSI rate - The retrospective audit of all women (n = 2436) undergoing a Caesarean section **between January and December 2021** demonstrated an **SSI rate of 6.1% (n = 149)**. **Post implementation January – December 2022** of Leukomed Sorbact (n = 2368) this reduced to **3.8% (n = 91)**. **A reduction of 37.7%**.

Antibiotic use

Of particular note was **the 30.4% reduction in antibiotic usage (2.3% to 1.6%)**.

Financial Savings

Explanation of how £49,750 cost savings achieved -

To determine the financial savings to the hospital directly the costs secondary to readmissions were used.

- Actual costs for the patients readmitted were sourced **from the finance department using PLICS data**.

In 2021, the average cost to BHRUT of a readmission using **Mepore dressings** was **£3942.25**, whilst the average cost in 2022 using **Leukomed Sorbact** was **£3083**.

- This saving of £860 per patient readmitted was largely due to the reduced length of stay. Therefore, for the 22 readmissions in 2022 a cost saving of £18,920 was identified.
- the readmission rate reduced by **30% and there were 10 fewer readmission episodes in 2022 than 2021**. Using the average cost to BHRUT of a readmission in 2022 (£3083) there was an additional saving of £30,830 (£3083 x 10).
- Total cost savings solely due to readmission costs (after the additional cost of the dressing has been considered) were **£49,750** (£18,920 + £30,830). **This equates to a cost saving per caesarean performed (2368) of £21.**

Associated System- Wide Savings (not direct to the Hospital)

The mean attributable cost to the system, including community care, of a CS SSI is £4048.15 Using this figure, the total costs due to SSIs were £603,152 (149 x £4048) in 2021 and £368,368 (91 x £4048) in 2022, **meaning a saving of £234,784 was realised by reducing SSI rates.**

For further information regarding these figures, please contact:

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