

The Power of Nurses and Midwives to Influence Change

Enhanced Recovery After Surgery (ERAS)

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- elective caesarean section

ERAS

•ERAS is a first of its kind of programme in maternity services in Ireland. •Patient-centered, research-based, multidisciplinary approach that uses selected preoperative, intraoperative and postoperative interventions to optimize outcomes and the patient's experience •ERAS has been shown to address the "triple aim"; improving quality of care while reducing cost and increasing patient satisfaction.

•Objective: to establish and embed a programme to minimise surgical trauma and post-operative pain, reduce complications, improve outcomes and decrease length of stay, while expediting recovery of the mother following an





- •Commenced on 22nd February 2021
- •Pilot on PSNT B
- catchment area

Aim:

ERAS at the Rotunda

•Focused initially on patients undergoing EL LSCS living within CMT catchment area •Implemented to PSNT A in September 2021; including patients not within CMT

•to embed ERAS pathway on all postnatal wards •to apply ERAS pathway to some major gynae surgeries and low risk emergency CS









Pre-op elements

- Patient education
- Haemogloblin optimisation
- •Limit fasting times
- Preoperative non particulate carbohydrate loading

ERAS pathway

Intra-op elements

- Prevent and treat spinal anaesthesia induced hypotension
- Maintain normothermia
- Optimal uterotonic administration
- •Antibiotic prophylaxis
- Intra and postoperative nausea and vomiting prophylaxis and treatment
- Multimodal analgesia
- Delayed cord clamping
- Promote breastfeeding and maternal-infant bonding



Post-op elements

- Promotion of return of bowel function (chewing gum)
- Early oral intake
- Early mobilisation
- Early urinary catheter removal
- •Venous thromboembolism prophylaxis
- Facilitate early discharge



ENHANCED RECOVERY AFTER CAESAREAN SECTION PATHWAY

BEFORE THE OPERATION



Patient education of entire pathway (with app/website)



Anaemia prevention





Medical team check-up and baby check-up day 1 after surgery

DURING THE OPERATION

Minimise surgical trauma





Prevent patient temperature loss in theatre



Patient satisfaction survey via website







•All women booked for an elective caesarean section delivery can be considered for the ERAS pathway - Some patients may not be able to complete ALL parts of it. •Recruited from Theatre diary or referred from OPD as early as possible •Followed up by ERAS midwife with phone call +/- face to face meeting Information (leaflet/booklet/website) to be given to patient in OPD at next appointment – face to face meeting if possible •Patient's will need to be residing within the catchment area for CMT follow up (North Dublin & Ashbourne)

Patient selection/referral





Referral Form (Found in each OPD room)

Enhanced Recovery After Surgery (ERAS) Referral form (Please complete when booking patient for EL LSCS & ERAS Midwife will follow up)

Referral date: Date of LSCS:

Patient's name: MRN: Tel: Reason for EL LSCS: Current gestation:

*Completed forms can be placed in Green ERAS folder at nurses station in OPD





- insulin therapy
- conversion to general anaesthesia
- pathway having been completed such as;
- with cardiac disease or severe preeclampsia

Exclusion Criteria

•Those who may not be suitable for the preoperative carbohydrate drink, such as patients with pre-existing type I or II diabetes or gestational diabetes who require

•Those who may not be suitable for postoperative early oral intake and mobilisation such as significant postpartum haemorrhage, admission to the high dependency unit or

•Many women may not be suitable for early discharge despite all other parts of

•Patients' residential location not within the geographical outreach for community midwifery care follow-up. (consideration can still be given for early discharge if there is appropriate partner and family support available; this will be on a case by case basis) •Women in whom significant medical risk continues in the postnatal period, such as those





- •Aim for early scheduling
- •Limit fasting times (will be advised on fasting times based on probable time of LSCS)
- •Carbohydrate drinks taken at least 2 hours prior to surgery
- •Further carbohydrate drinks available if required
- •Conductive warmer used in Theatre
- •Further anti-emetics agents if required
- •Chewing gum in recovery period

Day of LSCS

delivery):

- Light diet within 2 hours
- Analgesia 4 hours post-op
- Early mobilisation (within 6 hours)
- IDC removal (within 6 hours)
- Cannula removal (unless required for IV fluids/antibiotics)
- -Regular analgesia to be administered -Antiemetics to be given as required

6 hour care bundle (from time of



Surgeon should use the **ERAS version** of Procedure Note for ERAS patients

Hige Note Details								
Type: C/S Delivery Procedure Note			-					
Date: 15/03/2021	- 10	11 🚔 GMT						
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ROT Caesarean Section v. ERAS





Impression and Plan

Plan: ERAS care bundle Early mobilisation and light diet VTE prophylaxis as per Thrombocalc. Suitable for early discharge with CMT

LSCS note:

Urinary catheter out once mobile (aim for within 6 hours). Check point of care haemoglobin day 2 post-op +/- FBC.



- •Regular analgesia
- Medical check up of mum and baby on day 2 •Early discharge (after 48 hours) if eligible •Continue Oxynorm until 6 hours prior to discharge •Regular analgesia advised on discharge Honeycomb dressing removed Day 2 and replaced with a Surgipad if wound

- healing well
- •CMT follow up until discharge to PHN/GP (if within catchment area) •Patients to complete survey to give feedback about recovery experience

Postnatal care & Follow up



196 patients have completed the ERAS pathway in 2021 (March – December):

- or beir hugger)
- hours

KPS

•Pre-operative fasting times reduced from an average of 14.5 hours to 5.9 hours •Post-operative fasting times reduced from an average of 6.7 hours to 2.5 hours. •71 women (36%) were given further anti-emetic agents in OT/Recovery •30 women (15%) were given anti-emetics on the postnatal ward for nausea control •22 women (11%) required further temperature control measures in recovery (blanket

•Time of post-operative mobilisation reduced from an average of 13.9 hours to 6.9

•Time to IDC removal reduced from an average of 21.9 hours to 9.9 hours. •An average pain score of 1 has been reported on day one post-operatively (approx. 24 hours post-operatively). This compares to an average pain score of 1.9 pre ERAS*.

*Comparison data was collected on 100 women who underwent an elective LSCS pre ERAS





- 118 women (60%) have been discharged home on day two. •LOS for women undergoing elective cesarean section can vary between 72-120 hours (or 3-5 days). Average LOS for women who follow the ERAS pathway is 65.1 hours (or 2.7 days). •171 women (87%) followed up with the Community Midwifery Team (CMT) following discharge •Nine women (5%) had urinary retention, requiring re-insertion if a catheter x24 hours •Eight women (4.7%) were treated with antibiotics for suspected wound infection -Five treated for cellulitis

- -Four followed up in DAU
- -One was treated their GP
- •No cases of ileus
- •There have been no readmissions to date •Patient satisfactory survey sent at 6 weeks post-op

KPI's cont.









PDSA Cycles & Outcomes

- PDSA 1.0: To reduce hospital Length of Stay from 5 to 2 days for mothers having a planned Caesarean Section (CS) by December 2021
- PDSA 2.0: Reduce carbohydrate fasting times by providing Nutricia Pre-op drinks
- PDSA 3.0: Reduce total length of time of IDC
- PDSA 4.0: Expand ERAS to Postnatal ward A
- PDSA 5.0: Reduce length of time between 1st and 2nd dose of PR Difene





Aim:

- •To embed ERAS pathway on all postnatal wards •To apply ERAS pathway to some major gyane surgeries and low risk emergency CS

Involves:

- •MDT meetings
- Updating documents (guidelines, information booklet etc) •Education of pathway (patients and staff)
- •Recruiting patients
- •Link person for ERAS patients (included as a positive in patient's feedback) Implementation on all postnatal wards Implementation for Gynae surgeries and low risk emergency CS

- Continuous auditing
- •Feedback to staff
- Improving service

ERAS expansion





- support."

- section in June 2020."
- have another pregnancy I will be able to avail of this service."
- thanks."
- forget you had major abdominal surgery! Thank you to all the team in the Rotunda...keep up the excellent work."

Patient feedback

• "Very positive experience. It was very planned and controlled. Recovery was a lot easier than my first delivery. The midwives were especially helpful and would definitely recommend to family and friends."

• "Myself, my partner and our new baby were looked after so well during all aspects of this programme. Everything was explained to me in detail and in a very personal way. Every person that looked after us, did so with the best care. The programme allowed me to have a bit more control over my own mobility, recovery and medication. [...] I would absolutely do this programme again. Thank you for all your

• "Found it very positive. Very little pain at any stage. Very useful to mobilise early on as hospital was very understaffed on post natal ward and had to wait a long time for assistance from midwives, so thankfully I could look after myself and baby. Did not avail of early discharge as I was semi-private patient so would not have support of midwife at home, so I stayed 3 nights in hospital."

• "Really happy with the quality of care I received, everything was explained in advance and on the day. Would recommend the ERAS scheme to others."

• "I have had 2 sections 1 year and a day apart in the Rotunda and both were very positive experiences. All the staff were amazing. I was up and about and had catheter removed so much quicker than my

• "The program was extremely helpful for me, I felt like I had more control over my section as I made the decision to be in the program and was able to select the aspects of it that I wanted to do. I have had previous surgeries (including open heart surgery) and this was by far the best recovery, I was up moving the fastest and using the toilet/passing bowel movements much sooner than I have in previous operation recoveries. The team was incredibly helpful and supportive, they're a credit to the hospital. All the documents about the program were informative and easy to follow. The community midwives made the transition home seamless and went above and beyond when I encountered complications out of our control. I cannot say enough positive things about the program and team, hopefully should I

• "Fantastic service speedy recovery. My 3rd c section and by far my best recovery. I also had my tubes ligated with no added pain. Would 100% do it again if I was planning another birth. Many many

• "This was a completely different and more positive experience to my first cesarean which was an emergency. The quality of information and support provided was excellent. It was great to get home early particularly given the current covid environment. ... A cesarean can be quite a daunting back on your feet so quickly, coupled with excellent pain management, almost makes you





- •Guideline available on QPulse Information available at: https://rotunda.ie/eras/ •Youtube video: <u>https://youtu.be/mRHSScGB5_8</u> •E-mail: <u>eras@rotunda.ie</u> •ERAS phone: 0876532932

Further information

CAESAREAN SECTION



