

APPLYING ENHANCED RECOVERY
PRINCIPLES:
EARLY TESTING IN UPPER GI CANCER

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ENHANCED RECOVERY ? POSSIBLE

- Major procedure
- Painful
- Anastomotic complications
- Nutritional problems

ENHANCED RECOVERY ? EVIDENCE

- US reports of “streamlined care pathways”
- 90 patients – Ivor Lewis oesophago-gastrectomy
- Median hospital stay 7 days – range 6 -74
- Long stay
neoadjuvant therapy
> 70 years

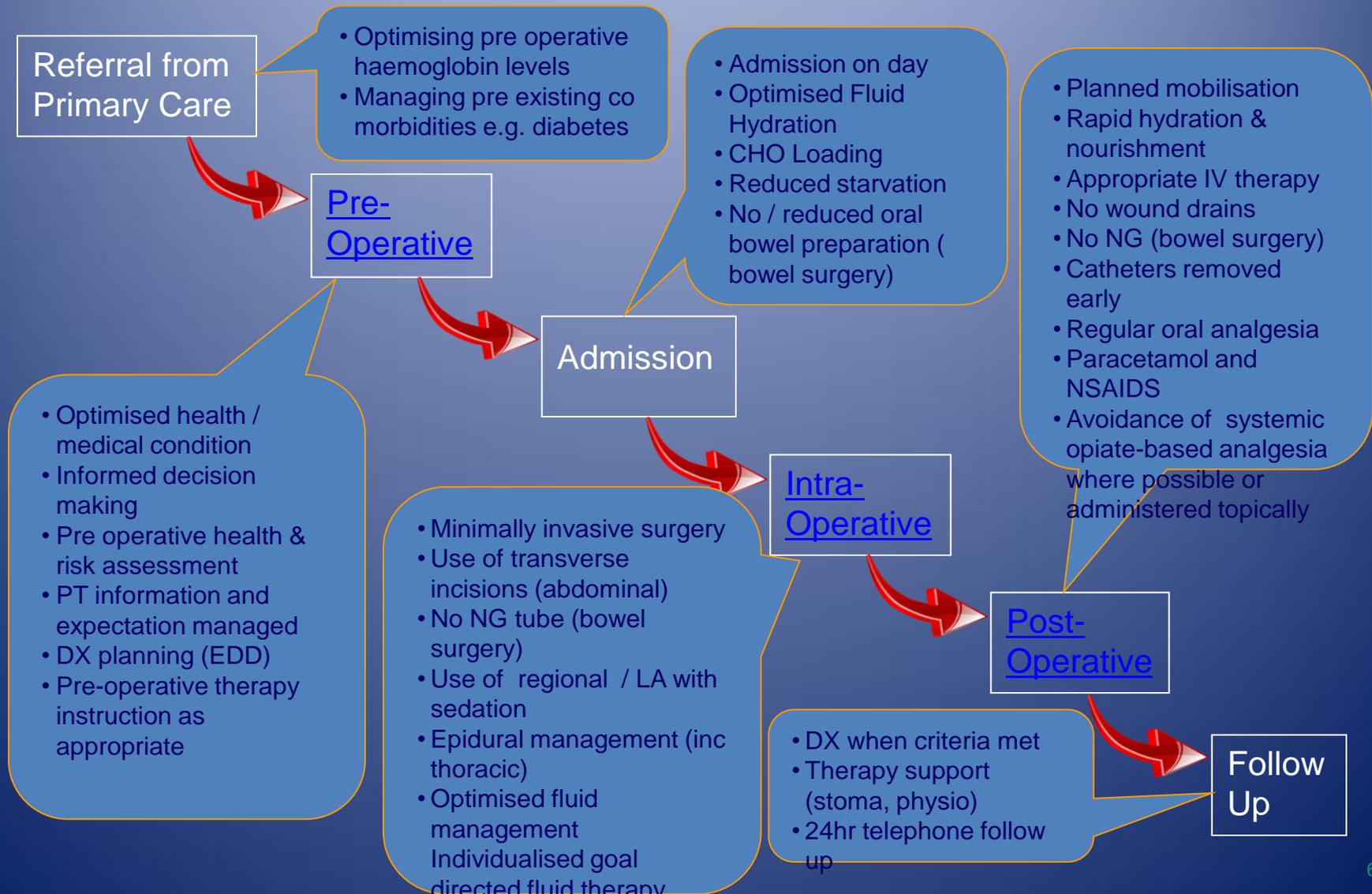
ENHANCED RECOVERY ? EVIDENCE

- Spanish report – “written clinical pathway”
- Two groups before and after pathway
- Median length of stay
before: 13 (range 8-106)
after: 9 (range 5-98)
- Delay if > 65 years

ENHANCED RECOVERY ? EVIDENCE

- Pancreas – fast-track programme
- Compared 2 groups before and after intervention
- Improved delayed gastric emptying
- Reduced length of stay
- Complications increased length of stay

Example of enhanced recovery elements



ENHANCED RECOVERY

ROYAL MARSDEN NHS FOUNDATION TRUST

- Cancer Centre – SW London Cancer Network
- Population 1.6M
- Referrals – 6 cancer units plus extra network
- 350 new referrals per year
- 75 resections annually

ENHANCED RECOVERY STEERING GROUP

- Trust Executive – Lead Nurse
- Medical
 - Surgeon
 - Intensivist
- Nursing
 - Ward
 - Critical Care
 - Rehabilitation
 - CNS
- AHP
 - Dietician
 - Physiotherapy

ENHANCED RECOVERY PATHWAY

- MDT
- Outpatients
- Perioperative
- Discharge planning
- Audit

ENHANCED RECOVERY OUTPATIENT CLINIC

- Medical / Health Questionnaire
- Comorbidity assessment
- Dietician
- Physio
 - shuttle walk test
 - spirometry
- CNS
 - Written information

ENHANCED RECOVERY CLINIC ASSESSMENT

- very fit with no comorbidity
- fit enough to proceed with treatment plan but have comorbidity
- patients with comorbidity who are borderline for radical surgery
- unfit due to significant comorbidity or patient choice not to proceed with treatment plan.

ENHANCED RECOVERY MANAGEMENT PLAN

- (i) will proceed with treatment plan
- (ii) refer for CPX but will proceed with treatment plan in parallel with comorbidity assessment
- (iii) refer for CPX and anaesthetic review and be reviewed prior to proceeding with treatment plan. If for surgery to be managed as group (ii); if unfit to be managed as group (iv)
- (iv) will be referred for non-radical therapy or palliative care.

ENHANCED RECOVERY OUTPATIENTS

- Post preop chemo review
- Repeat process of assessment

ENHANCED RECOVERY PRE-ADMISSION ASSESSMENT

- 2 weeks before surgery
- Intensivist
- Dietician
 - nutrition supplement
- Physiotherapy
 - exercise
 - incentive spirometer
- CNS

NUTRITIONAL SUPPORT

- Use of immunonutrition pre-operatively
 - 5 days of 750 ml or *Oral Impact* containing arginine (oral)
 - A reduction in length of stay in hospital
 - significantly fewer post operative infectious complications, such as wound infections, UTIs, pneumonia

ENHANCED RECOVERY PERIOPERATIVE

- Care pathway – daily plan
- Analgesia
- Mobilisation
- Nutrition

ENHANCED RECOVERY PERIOPERATIVE - ANALGESIA

Epidural

PCA

Regional blocks

ENHANCED RECOVERY PERIOPERATIVE - PHYSIOTHERAPY

- Mobilisation
- Incentive spirometer
- Pedometer

ENHANCED RECOVERY PERIOPERATIVE - NUTRITION

- Oral intake
- Jejunostomy feed
 - standard enteral formula for normally nourished patients
 - immunonutrition for malnourished patients
- Continued use of jejunostomy feeding until patient meets their nutritional requirement

ENHANCED RECOVERY DISCHARGE PLANNING

- Verbal and written instruction
- Treatment Record Summaries
- Nutritional support
 - dietary advice to optimise oral intake
 - monitoring of nutritional status in outpatients

ENHANCED RECOVERY EXPERIENCE

- Group I – 10 days post oesophagectomy
- Group II – 8 -13 days post gastrectomy
- Group III – 20+ days post oesophagectomy

CONCLUSION

- Enhanced Recovery possible for Upper GI
- Team approach
- Culture change
- Impact on quality of care
- ? Suitable for all