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Enhanced recovery after oesophagectomy: the benefit of having a discharge target

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target discharge date after The oesophagectomy at OUH is Day 8

However, recovery is often fraught, around half of patients with developing complications

Therefore the value of having this early enhanced recovery (ERAS) target could be challenged

Aims

NHS

Here we reviewed our experience with this target, with the following aims:

- What proportion met the target? (i)
- (ii) What are the medical and non-medical reasons for extended admission?
- (iii) Are outcomes improving?

Methods

This retrospective analysis of a high-quality, prospectively maintained databank included all patients since the current ERAS pathway was introduced 2015.

ECCG definitions were used for complications

Outcomes were reported over time and trends examined with χ^2 test. Binary logistic regression models with bootstrapping were fitted to examine predictors of discharge delay. SPSS v26 and Prism 7 were used.



	n (%)	median extra days
Total	443	
Met target	150 (33%)	
Missed target	293 (66%)	4
with complication	226 (51%)	6
e.g pneumonia	134 (30%)	6
e.g. anastomostic leak	16 (3.6%)	54
e.g. conduit necrosis	5 (1%)	57
without complication	67 (15%)	
e.g. not medically ready	37 (8%)	4
e.g. feeding tube training	10 (2%)	2
e.g. low mood	6 (1.3%)	4
e.g. transport	6 (1.3%)	2

Table 1: The majority of delayed discharges were due to complications, although a significant proportion were non-medical and potentially could be avoided



Figure 3: The proportion of patients with no complications after surgery is steadily increasing over time, from 26% in 2015 to 51% in 2020

Summary

The D8 target was met in only 33% of patients in this large ERAS series

Female sex, squamous carcinoma histology, and low socio-economic status predicted delayed discharge (as well as having a complication)

Non-medical reasons for delayed jejunostomy discharge include training, transport, and mood issues

Nonetheless, D8 the target İS being increasingly met and falling, with complications are equivalent surgical quality

This suggests it is good to have an early target, even if it often missed.

	Exp(B)	95% C.I.	Р
Age (<65 years)	0.80	0.74 - 1.04	0.41
Female	2.46	1.27 - 4.81	0.008
Charlson	0.88	0.74 - 1.04	0.141
Squamous	2.47	1.05 - 5.78	0.037
IMD tertile	1.34	1.06 - 1.70	0.016
Complication	4.16	2.67 - 6.47	<0.001

Table 2: Independent predictors of delayed discharge included female sex, squamous histology and low socio-economic status (IMD tertile), in addition to complications.