## Local recurrence of colorectal cancer

Bespoke care for the informed patient in a field with lots of unknowns and little high quality evidence

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PELICAN IMPROVING MANAGEMENT FOR PATIENTS IMPACT WITH ADVANCED COLORECTAL TUMOURS

## Levels of evidence and grades of recommendation

Table I				
	Levels of evidence and grades of recommendation according to the Scottish Intercollegiate Guidelines Network			
Levels of evidence				
1++	High-quality meta-analyses, systematic reviews of RCTs, or RCTs with very low risk of bias.			
1+	Well-conducted meta-analyses, systematic reviews of RCTs, or RCTs with a low risk of bias.			
1-	Meta-analyses, systematic reviews of clinical trials, or clinical trials with high risk of bias.			
2++	High-quality systematic reviews of cohort or case-control studies Cohort or case-control studies with very low risk bias and a high probability of establishing a causal relationship.			
2+	Well-conducted cohort or case-control studies with a low risk of bias and a moderate probability of establishing a causal relationship.			
2-	Cohort or case-control studies with a high risk of bias and a significant risk that the relationship is not causal.			
3	Non-analytical studies, such as case reports, case series or descriptive studies.			
4	Expert opinion.			
Grades of recommendation				
A	At least one meta-analysis, systematic review, or RCT, rated as 1++ and directly applicable to the guideline's targe population; or a body of evidence composed of studies rated as 1+ and with overall consistency among them.			
В	A body of evidence composed of studies rated as 2++, directly applicable to the guideline's target population and demonstrating overall consistency among them; or evidence extrapolated from studies rated as 1++ or 1+.			
С	A body of evidence composed of studies rated as 2+ directly applicable to the guideline's target population and demonstrating overall consistency among them; or evidence extrapolated from studies rated as 2++.			
D	Level of evidence of 3 or 4; or evidence extrapolated from studies rated as 2+.			

## Levels of evidence and grades of recommendation

•	No randomised trials or high quality evidence to guide treatment		
•	Anastomotic leak is associated with local recurrence (OR=2)	1-, B	(refs 1,2)
•	Biopsy for confirmation of diagnosis	2+, C	(refs 3,4)
•	If biopsy not possible, serial enlargement and positive CEA/PET/sMDT opinion	2-, D	(refs 3,4)
•	PET has utility in staging	3, D	(refs 3,4)
•	Referral of patients to specialist exenterative units	4, D	(refs 3,4)
•	MRI is optimum imaging modality for determining anatomy of disease in pelvis	2-, C	(refs 3,4)
•	Optimum treatment is by multimodality treatment	2+, C	(refs 3,4)
•	Chemoradiotherapy if Radiotherapy naïve	2+, C	(refs 3,4)
•	Consider reirradiation if previous Radiotherapy	3, D	(refs 3,4)
•	Radical surgical resection aiming for R0 if fit and appropriately informed	2+, B/0	C(refs 3,4)
•	Surgery based on pre-treatment imaging	4, D	(refs 3,4)
•	Intraoperative radiotherapy if margins predicted to be close/involved	2-, C	(refs 3,4)
•	Close collaboration between surgeon and pathologist for evaluation of margins	4, D	(refs 3,4)





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- Management of locally recurrent CRC is an MTE Massive team endeavour
  - Referring team and MDT; receiving team and MDT; CNSs; Medical and clinical oncology; Palliative care; Radiology; IR; Pathology; Anaesthetics; different surgical specialties; medical physics and radiographers
- MTE also equates to a communication challenges.
- Effective and regular communication is helpful with patients; between units; and between teams
- No clear single model or pathway: Tailored to individual patients; anatomy (and classification) of disease; and circumstances.
- General oversight by specialist MDT where possible
- Early review and discussion between the planned ultimate surgical team and patients and their family is encouraged



- Important knowledge gaps:
  - Role of reirradiation; intraoperative brachytherapy; or electron beam radiotherapy
  - How to avoid radical surgery in those with occult micrometastases critical need for validated biomarkers with clinical utility
  - Optimum follow up approach
  - Quality of life and Health economics in the setting of a clinical trial
- Other areas for improvement:
  - Standardising radiological classification systems
  - Standardising pathological assessment

## References

- 1. Mirnezami A, Mirnezami R, Chandrakumaran K, Sasapu K, Sagar P, Finan P. Increased local recurrence and reduced survival from colorectal cancer following anastomotic leak: systematic review and meta-analysis. Ann Surg. 2011 May;253(5):890-9.
- 2. Lu ZR, Rajendran N, Lynch AC, Heriot AG, Warrier SK. Anastomotic Leaks After Restorative Resections for Rectal Cancer Compromise Cancer Outcomes and Survival. Dis Colon Rectum. 2016 Mar;59(3):236-44.
- 3. Beyond TME Collaborative. Consensus statement on the multidisciplinary management of patients with recurrent and primary rectal cancer beyond total mesorectal excision planes. Br J Surg. 2013 Jul;100(8):1009-14.
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