

Headings	Description
<b><u>I Study ID</u></b>	
<b>1. Reference</b>	First author; Journal name; Publication Date;
<b><u>II Method</u></b>	
<b>1. Study design</b>	Specify the type of study: RCT, CCT, case control, case series
<b>2. Source of funding/conflicts of interest</b>	Specify the source of funding: public research funds, government, not governmental organization, healthcare industry or other (give name of organization or corporation) presence of declaration of interest.
<b>3. Setting</b>	Numbers of centers, countries involved, healthcare setting, urban/rural/mixed.
<b>4. Sample size</b>	Give the calculated number in each group and the actual number of patients in each group.
<b>5. Duration of the Study</b>	Duration in months or years.
<b><u>III Patient characteristics</u></b>	
<b>1. Eligibility criteria</b>	State the most relevant inclusion and exclusion criteria for population (patients and pathology).
<b>2. Patient characteristics</b>	Specify a priori characteristics (age, tumor, stage).
<b>3. Group comparability</b>	p for group comparability.
<b><u>IV Intervention(s)</u></b>	
<b>1. Intervention(s)</b>	Precise details of the interventions for each group (including dose, length, regimen and timing if relevant).
<b>2. Comparator(s)</b>	Placebo, other treatment (including dose, length, regimen and timing if relevant).
<b><u>V Results primary outcome</u></b>	
<b>1. Effect size primary outcome</b>	Summary of the primary outcome in each and between groups: effect size and its precision (p value, CI) Including efficacy: Absolute risk reduction, relative risk (reduction), odds ratios, confidence intervals.
<b><u>VI Results secondary and all other outcomes</u></b>	
<b>1. Effect size secondary outcome(s)</b>	Brief description of secondary outcome(s) and p values.
<b>2. Effect size all other outcomes, endpoints</b>	All other outcomes, endpoints, including adverse effects, toxicity, quality of life
<b><u>VII Critical appraisal of study quality</u></b>	
<b>1. Level of evidence</b>	Classification of intervention studies.
<b>2. Dropouts</b>	Number of dropouts/withdrawals in each group
<b>3. Results critical appraisal</b>	Summarize internal validity: sample size, randomization and blinding, use of inappropriate statistical analysis, etc

## KEY QUESTION 1

### Assessment table relative importance patient important outcomes

Patient-important outcomes	Mean rating	Relative importance
Local control	8	Critical
Survival	7	Critical
Quality of life	8	Critical

As rated by 7 guideline panel members, 0 of whom were patients

#### 1.1.1.1 Evidence table observational studies grade I

I Study ID	II Method	III Patient characteristics	IV Intervention(s)	V Results primary outcome	VI Results secondary and other outcome(s)	VII Critical appraisal of study quality
Luglio 2011	<ul style="list-style-type: none"> <li>Observational study</li> <li>Support: not reported; Col: not reported</li> <li>Setting: single centre, Italy</li> <li>Sample size: N= 18</li> <li>Duration: 2000-2005</li> <li>Follow-up: 5 years</li> </ul>	<ul style="list-style-type: none"> <li>Inclusion: T1 rectal cancer patients</li> <li>Exclusion: not reported</li> <li>Patient characteristics: 2/18 patients had a T1 tumour that appeared to deeply infiltrate the sub mucosa</li> </ul>	Neoadjuvant radiotherapy + local excision	At 5 years follow-up, no local recurrences and 2 systemic recurrences (11%) had occurred	-	<ul style="list-style-type: none"> <li>Available in abstract form only</li> <li>Data for T1 patients only reported here</li> <li>Retrospective study of a prospectively maintained database</li> <li>Preoperative staging with endorectal ultrasound</li> <li>Patients were unfit for surgery, or refused surgery or a stoma</li> <li>Unclear whether all patients did receive neoadjuvant radiotherapy</li> </ul>

Abbreviations: Col: conflict of interest; RCT: randomised controlled trial

#### 1.1.1.2 Grade table observational studies grade I

No. of studies	Design	Limitations	Quality assessment				No of patients		Effect (95%CI)		Quality	Importance
			Inconsistency	Indirectness	Imprecision	Other considerations	Local excision	-	Relative	Absolute		
% recurrence at 5 years												
1	Observational	Serious	No serious	No serious	Serious	No other	18	0	-	11%	Very low	Critical

	study	limitation <sup>1</sup> s	inconsistency	indirectness	imprecision <sup>2</sup>	considerations						⊕○○○	
<b>Overall quality of evidence: very low</b>													

<sup>1</sup> No control group

<sup>2</sup> Small number of events leads to fragility of results

### 1.1.1.3 Evidence table randomised controlled trials stage II

I Study ID	II Method	III Patient characteristics	IV Intervention(s)	V Results primary outcome	VI Results secondary and other outcome(s)	VII Critical appraisal of study quality
Lezoche 2012	<ul style="list-style-type: none"> <li>• RCT</li> <li>• Support: not reported ; Col: none</li> <li>• Setting: two centres, Italy</li> <li>• Sample size: N= 100</li> <li>• Duration: April 1997-April 2004</li> <li>• Follow-up: median 9.6 years</li> </ul>	<ul style="list-style-type: none"> <li>• Inclusion: T2N0M0 rectal cancer; grade G1-G2; &lt;3 cm ; within 6 cm of the anal verge; ASA fitness grade I-II</li> <li>• Exclusion: lymphovascular or perineural invasion; suspicious nodes or inconsistent findings at EUS, CT or MRI tumor staging</li> <li>• Patient characteristics: <ul style="list-style-type: none"> <li>• Age: median 66 years</li> <li>• Male: 64%</li> </ul> </li> </ul>	<p>Neoadjuvant chemoradiotherapy + transanal endoscopic microsurgery (n=50) vs. neoadjuvant chemoradiotherapy + laparoscopic total mesorectal excision (n=50)</p> <p>Neoadjuvant therapy: total dose of 50.4 Gy in 28 fractions over 5 weeks + continuous infusion of 5-fluorouracil 200 mg/m<sup>2</sup>/day during radiotherapy</p>	<p>Local recurrence: 8 vs. 6%</p> <p>Distant metastases: 4 vs. 4%</p> <p>Probability of developing recurrence or metastasis at end of follow-up: 12% (95%CI: 6-25%) vs.10% (4-22%) (p=0.69)</p> <p>Cancer-related survival rate at the end of follow-up: 89% (95%CI: 70-96%) vs. 94% (82-98%) (p=0.69)</p> <p>Overall survival rate at the end of follow-up: 72% (95%CI: 51-86%) vs. 80% (95%CI: 62-90%) (p=0.61)</p> <p>Temporary stoma: 0 vs. 11 (p&lt;0.001)</p> <p>Permanent stoma: 0 vs. 12 (p&lt;0.001)</p>	<p>30-day mortality rate: 0 vs. 0</p> <p>Operative programme change/conversion to open surgery: 0 vs. 6 (p=0.01)</p> <p>Minor postoperative complications: 6 vs. 7 (p=0.77)</p> <p>Major postoperative complications: 1 vs. 3 (p=0.25)</p> <p>In a Cox regression analysis type of procedure (RR: 14.24, 95%CI: 1.36-149.16; p=0.03) and blood loss (RR: 1.01, 95%CI: 1.00 to 1.01; p&lt;0.001) were the only variables with a significant effect on the development of recurrence or metastases. The authors conclude that: 'the significantly higher risk could be explained by the earlier occurrence of events' in the local excision group. 5/6 events occurred in the first year in the local excision group vs. 0/5 events in the radical resection group</p> <p>When the RR of death was evaluated, no variable significantly affected the probability of failure</p>	<ul style="list-style-type: none"> <li>• Computer-generated randomisation sequence</li> <li>• Allocation concealment by sealed opaque envelopes</li> <li>• Blinding of patients not possible</li> <li>• Blinded outcome assessment: not reported</li> <li>• ITT analysis, no loss to follow-up</li> <li>• Patients characteristics similar across groups</li> <li>• Staging included: endorectal ultrasonography ; rigid sigmoidoscopy and tumour biopsies; total colonoscopy; whole-body CT; and pelvic MRI</li> </ul>

Abbreviations: ASA: American Society of Anesthesiologists; Col: conflict of interest; RCT: randomised controlled trial

### 1.1.1.4 Grade table stage 2

No. of studies	Design	Risk of bias	Quality assessment				No of patients		Effect (95%CI)		Quality	Importance
			Inconsistency	Indirectness	Imprecision	Other considerations	Transanal endoscopic microsurgery	Laparoscopic resection	Relative	Absolute		
<b>Probability of local recurrence or metastasis at 10 years</b>												
1	RCT	Serious risk of bias <sup>1</sup>	No serious inconsistency	No serious indirectness	Serious imprecision <sup>2</sup>	No other considerations	50	50	-	12% (95%CI: 6-25%) vs. 10% (4-22%) (p=0.69)	Low ⊕⊕○○	Critical
<b>10-year cancer-related survival</b>												
1	RCT	No serious risk of bias	No serious inconsistency	No serious indirectness	Serious imprecision <sup>2</sup>	No other considerations	50	50	-	89% (95%CI: 70-96%) vs. 94% (82-98%) (p=0.69)	Moderate ⊕⊕⊕○	Critical
<b>10-year overall survival</b>												
1	RCT	No serious risk of bias	No serious inconsistency	No serious indirectness	Serious imprecision <sup>2</sup>	No other considerations	50	50	-	72% (95%CI: 51-86%) vs. 80% (95%CI: 62-90%) (p=0.61)	Moderate ⊕⊕⊕○	Critical
<b>Permanent stoma</b>												
1	RCT	No serious risk of bias	No serious inconsistency	No serious indirectness	Serious imprecision <sup>2</sup>	No other considerations	50	50	-	0 vs. 12 (p<0.01)	Moderate ⊕⊕⊕○	Critical
<b>Overall quality of evidence: moderate</b>												

<sup>1</sup> Blinding of patients not possible; no blinding of outcome assessors, or unlikely

<sup>2</sup> Few events lead to fragility of results

### 1.1.1.5 Evidence table observational studies stage III

I Study ID	II Method	III Patient characteristics	IV Intervention(s)	V Results primary outcome	VI Results secondary and other outcome(s)	VII Critical appraisal of study quality
Callender 2010	<ul style="list-style-type: none"> <li>Comparative cohort study</li> <li>Support: not reported; Col: not reported</li> </ul>	<ul style="list-style-type: none"> <li>Inclusion: T3N0-1M0 rectal cancer</li> <li>Exclusion: not reported</li> </ul>	Neoadjuvant CRT + full-thickness local excision (Kraske n=6; transanal	10-year actuarial local recurrence rate: 10.6 vs. 7.6% (p=0.52)	Adverse effects were only reported for the	<ul style="list-style-type: none"> <li>Retrospective study</li> <li>Local excision patients were older, had smaller</li> </ul>

	<ul style="list-style-type: none"> <li>Setting: single centre, United States</li> <li>Sample size: N= 47 vs. 473</li> <li>Duration: January 1990-July 2008</li> <li>Follow-up: 63 vs. 59 months</li> </ul>	<ul style="list-style-type: none"> <li>Patient characteristics: <ul style="list-style-type: none"> <li>Age: 62.5 ± 14.2 vs. 57.8 ± 12.5 years (p=0.02)</li> <li>Tumor size (SD): 3.9 (± 1.4) vs. 5.2 (± 1.9) cm (p&lt;0.001)</li> <li>Distance from anal verge (SD): 3.7 (± 1.6) vs. 5.5 (± 3.0) cm (p=0.001)</li> <li>Gross residual disease : 15 vs. 58% (p&lt;0.0001)</li> <li>N1 disease: 27.7 vs. 53.7%</li> </ul> </li> </ul>	<p>n=41) vs. neoadjuvant CRT + TME</p> <p>Radiation doses of 45, 50.4, or 52.5 Gy with concurrent 5-fluorouracil-based chemotherapy</p>	<p>10-year disease recurrence: 21.3 vs. 24.9%</p> <p>10-year disease-free survival rate: actual data reported in a figure (p=0.59)</p> <p>10-year disease-specific survival: actual data reported in a figure (p=0.64)</p> <p>10 year overall survival: actual data reported in a figure (p=0.81)</p>	<p>local excision group, not for the TME group</p>	<p>tumours, fewer gross residual disease and fewer N1 disease. No control for these factors in the analyses</p> <ul style="list-style-type: none"> <li>Patients were staged by means of clinical examination, digital rectal examination, chest X-ray, CT of the abdomen and pelvis, and endoscopy. Endoscopic ultrasound was routinely performed</li> <li>Patients underwent local excision because of co-morbidity (n=12); refusal of TME (n=15); complete clinical response with a strong preference for local excision (n=15); other/undocumented reasons (n=5)</li> </ul>
Guerrieri 2008	<ul style="list-style-type: none"> <li>Observational study</li> <li>Support: not reported; Col: not reported</li> <li>Setting: single centre, Italy</li> <li>Sample size: N= 61</li> <li>Duration: May 1992-December 2005</li> <li>Follow-up: range: 12-178 months (including T2 patients)</li> </ul>	<ul style="list-style-type: none"> <li>Inclusion: T3N0M0</li> <li>Exclusion: not reported</li> <li>Patient characteristics: not reported separately for T3 patients</li> </ul>	<p>Neoadjuvant radiotherapy + TEM</p> <p>Neoadjuvant radiotherapy: 180 cGy in 28 fractions for a total dose of 5,040 cGy over 5 weeks</p> <p>From January 1997, 70-year-old patients with good performance status underwent preoperative RCT with a continuous infusion of 5-fluorouracil 200 mg/m<sup>2</sup>/day.</p>	<p>Probability of local recurrence (95%CI):</p> <ul style="list-style-type: none"> <li>12 months: 0</li> <li>36 months: 0.05 (0.02-0.16)</li> <li>End of follow-up: 0.05 (0.02-0.16)</li> </ul> <p>Probability of metastasis (95%CI):</p> <ul style="list-style-type: none"> <li>12 months: 0</li> <li>36 months: 0.02 (0.0-0.12)</li> <li>End of follow-up: 0.04 (0.01-0.15)</li> </ul> <p>Probability of disease-free survival (95%CI):</p> <ul style="list-style-type: none"> <li>12 months: 1</li> <li>36 months: 0.87 (0.64-0.96)</li> <li>End of follow-up: 0.77 (0.53-0.90)</li> </ul>	-	<ul style="list-style-type: none"> <li>Data on clinical T3 patients reported here</li> <li>No control group</li> <li>Unclear what the follow-up for T3 patients was</li> <li>Patients were staged preoperatively by colonoscopy, rigid rectoscopy, transanal endosonography, CT or MRI, bone scintigraphy and chest-X-rays</li> <li>Patients underwent local excision because they were high risk (ASA 3-4) patients or had refused conventional resection</li> </ul>
Kennelly 2012	<ul style="list-style-type: none"> <li>Observational study</li> <li>Support: not reported; Col:</li> </ul>	<ul style="list-style-type: none"> <li>Inclusion: T3N0-1M0 rectal cancer patients</li> </ul>	<p>Neoadjuvant chemoradiotherapy +</p>	<p>No local recurrence or metastasis detected at longest follow-up</p>	-	<ul style="list-style-type: none"> <li>No control group</li> <li>Prospective study</li> </ul>

	<ul style="list-style-type: none"> <li>• none</li> <li>• Setting: single centre, Ireland</li> <li>• Sample size: N= 10</li> <li>• Duration: July 2006-July 2009</li> <li>• Follow-up: median 24 months (range: 9-42 months)</li> </ul>	<ul style="list-style-type: none"> <li>• Exclusion: fit for and agreed to surgery; patients who had little or no clinical response to neo-adjuvant treatment</li> <li>• Patient characteristics: <ul style="list-style-type: none"> <li>• Age: mean 71.4 years</li> <li>• Male: 60%</li> </ul> </li> </ul>	<p>full-thickness local excision</p> <p>50 Gy for 5 weeks and 5-fluorouracil infusion week 1 and 5: 1 g/kg</p>			<ul style="list-style-type: none"> <li>• No loss to follow-up</li> <li>• Staging was done by CEA; CT of thorax, abdomen and pelvis; and MRI of pelvis</li> <li>• Patients were unfit for or refused resection</li> <li>• Patients with little or no clinical response to neo-adjuvant treatment were excluded</li> </ul>
Meadows 2006	<ul style="list-style-type: none"> <li>• Observational study</li> <li>• Support: not reported; Col: not reported</li> <li>• Setting: single centre, United States</li> <li>• Sample size: N= 16</li> <li>• Duration: July 1988-April 2004</li> <li>• Follow-up: median 27 months (range: 2-123 months, including T1-2 patients)</li> </ul>	<ul style="list-style-type: none"> <li>• Inclusion: T3 patients</li> <li>• Exclusion: not reported</li> <li>• Patient characteristics: not reported separately for T3 patients</li> </ul>	<p>Neoadjuvant (C)RT + full-thickness local excision</p> <p>Minimum tumor dose of 4500 cGy to the rectum and low pelvis, and 22 patients (out of 32 T1-3 patients) received a 3-field boost to 5040 cGy</p> <p>Concomitant chemotherapy was routinely added to the preoperative RT regimen since 1991; 25 patients out of all 32 T1-3 patients received chemotherapy and 7 patients received RT alone</p>	Local-regional recurrence-free survival: 71%	-	<ul style="list-style-type: none"> <li>• No control group</li> <li>• Data on clinical T3 patients reported here</li> <li>• 28/32 T1-3 patients were staged preoperatively by endoscopic ultrasound</li> </ul>
Mohiuddin 1994	<ul style="list-style-type: none"> <li>• Observational study</li> <li>• Support: not reported; Col: not reported</li> <li>• Setting: single centre, United States</li> <li>• Sample size: N= 30</li> <li>• Duration: not reported</li> <li>• Follow-up: median 40 months including <math>\leq</math>T2 patients (range: 12-96 months)</li> </ul>	<ul style="list-style-type: none"> <li>• Inclusion: <math>\geq</math>T3 adenocarcinoma of the distal rectum located 0-6 cm from the anal ring</li> <li>• Exclusion: not reported</li> <li>• Patient characteristics: not reported separately for <math>\geq</math>T3 patients</li> </ul>	<p>Neoadjuvant RT + full-thickness local excision</p> <p>RT was a total dose of 40-45 Gy at 1.8-2.5 Gy/fraction with a boost in selected patients with tumor fixation (T3/T4) to a total of 55 Gy</p>	<p>Local recurrence: 3/30 (10%)</p> <p>5-year actuarial survival rates:</p> <ul style="list-style-type: none"> <li>- 15 medically unfit patients: 74%</li> <li>- 15 patients assessed as <math>\leq</math>T2 and &lt;3 cm post radiation: 88%</li> </ul>	-	<ul style="list-style-type: none"> <li>• No control group</li> <li>• Data on clinical <math>\geq</math>T3 patients reported here</li> <li>• No loss to follow-up</li> <li>• Patients were staged with clinical examination, chest X-ray, barium enema, CT of the abdomen and pelvis, endoscopy, and more recently by MRI</li> <li>• 15 patients were medically unfit for radical surgery; 15 patients had T3 tumours that were</li> </ul>

						assessed as $\leq T2$ post radiation, and were $<3$ cm
Nair 2008	<ul style="list-style-type: none"> <li>Observational study</li> <li>Support: not reported; Col: not reported</li> <li>Setting: single centre, United States</li> <li>Sample size: N= 22</li> <li>Duration: July 1994-August 2006</li> <li>Follow-up: median 64 months (range: 6-153, including T2 patients)</li> </ul>	<ul style="list-style-type: none"> <li>Inclusion: T3N0 patients who underwent local excision for rectal carcinoma after neoadjuvant CRT</li> <li>Exclusion: not reported</li> <li>Patient characteristics: not reported separately for T3 patients</li> </ul>	<p>Neoadjuvant CRT + full-thickness local excision</p> <p>4,500 cGy in 25 fractions to the pelvis + 540 cGy boost focused at the primary tumor site, concomitantly with 5-fluoruracil as a continuous infusion at a dose of 300 mg/m<sup>2</sup> /day, 5 days/week on days of radiation</p>	<p>1/22 (5%) patients had a local recurrence</p> <p>2/22 (10%) patients had a distal recurrence</p> <p>2/22 (10%) patients died of disease</p>	-	<ul style="list-style-type: none"> <li>No control group</li> <li>Data on clinical T3N0 patients reported here</li> <li>Retrospective study</li> <li>Patients were staged preoperatively by endoscopic ultrasound and CT of the abdomen and pelvis</li> <li>Patients underwent local excision because they refused radical surgery or were unfit for it</li> </ul>
Schell 2002	<ul style="list-style-type: none"> <li>Observational study</li> <li>Support: not reported; Col: none</li> <li>Setting: United States</li> <li>Sample size: N= 11</li> <li>Duration: 1992-2000</li> <li>Follow-up: median 47.9 months (range: 18-105)</li> </ul>	<ul style="list-style-type: none"> <li>Inclusion: T3N0-1 rectal cancer patients with significant downstaging after neoadjuvant therapy</li> <li>Exclusion: not reported</li> <li>Patient characteristics: <ul style="list-style-type: none"> <li>Age: mean 53 years</li> <li>Male: 82%</li> <li>3 N1 patients on MRI</li> </ul> </li> </ul>	<p>Neoadjuvant chemoradiotherapy + full-thickness local excision</p> <p>4,500 cGy and either standard or continuous 5-FU/leucovorin chemotherapy</p>	<p>Local recurrence: 0</p> <p>Metastasis: 1 (9%)</p> <p>Deaths: 0</p>	<p>1 patient (9%) experienced sphincter laxity, with intermittent soiling, which was successfully repaired</p> <p>1 patient (9%) developed postoperative urgency that resolved spontaneously</p>	<ul style="list-style-type: none"> <li>No control group</li> <li>Patients who down staged to clinical T stage 0 or 1 were offered transanal excision of their residual rectal cancer or rectal scar, if not more than 2cm in diameter</li> </ul>
Tennyson 2012	<ul style="list-style-type: none"> <li>Observational study</li> <li>Support: not reported; Col: not reported</li> <li>Setting: single centre, United States</li> <li>Sample size: N= 11</li> <li>Duration: 1998-2008</li> <li>Follow-up: median 5.9 years, range: 0.3-11.1 (including patients with other stages)</li> </ul>	<ul style="list-style-type: none"> <li>Inclusion: T3N0-1M0 rectal cancer patients</li> <li>Exclusion: not reported</li> <li>Patient characteristics: not reported separately for T3 patients</li> </ul>	<p>Neoadjuvant (chemo)radiotherapy + local excision</p> <p>4500 cGy with a 3-field boost to 5040 cGy</p> <p>Concomitant chemotherapy was given to 26 of 32 preoperative patients (including all stage patients)</p>	<p>3 (27%) local recurrences occurred</p> <p>20% local recurrence at 5 years</p>	-	<ul style="list-style-type: none"> <li>No control group</li> <li>Retrospective study</li> <li>Only data for neoadjuvantly treated T3 patients reported here</li> <li>Staging included CT scans of the abdomen and pelvis, chest CT or X-ray, complete blood count, liver function tests, EUS, and carcinoembryonic antigen levels</li> <li>Patients were unfit for, or refused surgery</li> </ul>
Yeo 2010	<ul style="list-style-type: none"> <li>Observational study</li> <li>Support: National Cancer</li> </ul>	<ul style="list-style-type: none"> <li>Inclusion: T3N0-1M0</li> <li>Exclusion: not reported</li> </ul>	<p>Neoadjuvant chemoradiotherapy + full-thickness local</p>	<p>1 local recurrence occurred (9%)</p> <p>1 metastasis occurred (9%), this</p>	No grade 3 or worse gastrointestinal	<ul style="list-style-type: none"> <li>No control group</li> <li>Retrospective study</li> </ul>

	Center Grant; Col: none <ul style="list-style-type: none"> <li>Setting: Korea</li> <li>Sample size: N= 11</li> <li>Duration: January 2003-February 2008</li> <li>Follow-up: median 59 months (range: 24-85)</li> </ul>	<ul style="list-style-type: none"> <li>Patient characteristics: <ul style="list-style-type: none"> <li>Age: median 61 years</li> <li>Median tumour size: 3 cm</li> <li>5 patients were N1</li> </ul> </li> </ul>	excision  50.4 Gy in 28 fractions with concurrent chemotherapy	patient died  The 5-year local recurrence-free, disease-free and overall survival rates were 90.9%, 81.8% and 88.9%, respectively	toxicity was detected	<ul style="list-style-type: none"> <li>10 patients received postoperative chemotherapy</li> <li>Patients refused surgery</li> </ul>
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Abbreviations: ASA: American Society of Anesthesiology; Col: conflict of interest; CRT: chemoradiotherapy; SD: standard deviation; TEM: transanal endoscopic microsurgery; TME: total mesorectal excision

### 1.1.1.6 Grade table stage III

No. of studies	Design	Limitations	Quality assessment				No of patients		Effect (95%CI)		Quality	Importance
			Inconsistency	Indirectness	Imprecision	Other considerations	Neo-adjvant CRT + local excision	Neo-adjvant CRT + TME	Relative	Absolute		
<b>10-year local recurrence</b>												
1	Comparative cohort study	No serious limitations	No serious inconsistency	No serious indirectness	Serious imprecision <sup>1</sup>	No other considerations	47	473	-	10.6% vs. 7.6% (p=0.52)	Very low ⊕○○○	Critical
<b>10 year disease-specific survival</b>												
1	Comparative cohort study	No serious limitations	No serious inconsistency	No serious indirectness	Serious imprecision <sup>1</sup>	No other considerations	47	473	-	Data reported in a figure (p=0.64)	Very low ⊕○○○	Critical
<b>10 year overall survival</b>												
1	Comparative cohort study	No serious limitations	No serious inconsistency	No serious indirectness	Serious imprecision <sup>1</sup>	No other considerations	47	473	-	Data reported in a figure (p=0.81)	Very low ⊕○○○	Critical
<b>% local recurrence at 4-178 months</b>												
7	Observational studies	Serious limitations <sup>2</sup>	No serious inconsistency	No serious indirectness	Serious imprecision <sup>1</sup>	No other considerations	156	0	-	0-27%	Very low ⊕○○○	Critical
<b>Overall survival at ± 5 years</b>												
4	Observational studies	Serious limitations <sup>2</sup>	No serious inconsistency	No serious indirectness	Serious imprecision <sup>1</sup>	No other considerations	74	0	-	74-100%	Very low ⊕○○○	Critical
<b>Disease-free survival at ± 5 years</b>												
4	Observational studies	Serious limitations <sup>2</sup>	No serious inconsistency	No serious indirectness	Serious imprecision <sup>1</sup>	No other considerations	99	0	-	71-91%	Very low ⊕○○○	Critical
<b>Overall quality of evidence: very low</b>												

Abbreviations: CRT: chemoradiotherapy; TME: total mesorectal excision

<sup>1</sup> Small number of events (in some series/groups) leads to fragility of results

<sup>2</sup> No control group. Retrospective studies