



Colorectal Cancer

Measurability of Quality Performance Indicators Version 2.7

To be read in conjunction with:

- Colorectal Cancer Clinical Quality Performance Indicators V2.1 (March 2015)
 - Colorectal Cancer Data Definitions (Latest published version)

Measurability of Quality Performance Indicators for Colorectal Cancer

Please refer to the [Colorectal Cancer Quality Performance Indicators](#) published by Healthcare Improvement Scotland for a full description of individual QPIs

Please refer to the [Colorectal Cancer QPI Dataset](#) published by ISD Scotland for a full description of individual data items

Document control:

This version

Title	Colorectal Cancer Measurability of QPIs	Version/Issue Number	2.7
Effective From	1 st April 2014	Author	Charlotte Anthony, Jane Garrett/ISD
Document Type	Guidance	Document status	Final
Document Purpose	To outline how QPIs should be measured using the agreed National Minimum Core Dataset		
Summary of changes	Amendments made to out with review		

Revision History

Version	Date	Status	Reason for Change	QPI (s)
0.1	11/6/2012	Draft		All
0.2	14/6/2012	Draft	Revised following coding checks	All
0.3	19/6/2012	Draft	Revised following IS checks	All
0.4	Feb 2013	Draft	Updated following public engagement comments, to reflect changes to QPIs and dataset, and reformatted to convention agreed at QPI meeting May 2012, not recorded specification updated as agreed with Roger Black Jan 2013	All
0.5	Feb 2013	Draft	Updated following comments from Iona Scott, Lorna Bruce and Jennifer Keatings; and updates to dataset; and clarification from QPI training day	All
1.0	April 2013	Final	Draft version 0.5 updated with changes to dataset following training day and saved for publication	All
1.1	Dec 2013	Final	Version 1.0 updated to reflect changes required to dataset prior to review.	All
1.2	Jan 2014	Final	Version 1.1 updated to reflect changes required to dataset prior to review.	5, 8, 10
2.0	April 2014	Final	Amendments made as per agreed changes following 9 month review, updated with new MDT QPI and checked against published QPIs and dataset.	All
2.1	June 2014	Final	Amendments made out-with review, incorporating additional data item into the dataset updating the MDT QPI	3, 5, 6, 7, 12
2.2	September 2014	Final	Amendments made to QPI 7 and 12.	7, 12
2.3	October 2014	Final	Amendments made to QPI 4	4
2.4	March 2015	Final	Amendments made to QPI 5	5
2.5	May 2015	Final	Amendments made after Baseline Review and out-with review	1,2, 3,5, 6,7,9,10,11,12
2.6	Aug 2015	Final	Amendments made outwith review	3
2.7	Nov 2015	Final	Amendments made outwith review	1, 2,3,5,6 7,10,11

Updates from Previous Version

QPI	Summary of changes (excluding formatting changes) (September 2015)
1	(Query 1050) Amended MODE to FIRSTTREATMODE in Denominator (i) and NR for exclusion
2	(Query 1089) Code H41.3 added to Denominator

3	(Query 1016) Amended denominator [OPCODE2 <> 96] to [OPCODE2 = 96]
5	(Query 1089) Code H41.3 added to Denominator
6	(Query 1089) Code H41.3 added to Denominator
7	(Query 1050) Description amended from "Proportion of patients with rectal cancer who undergo surgical resection in which tumour is present at the circumferential margin" to "Proportion of patients with rectal cancer who undergo surgical resection in which the circumferential margin is clear of tumour"; Denominator (ii) deleted 'AND [OPCODE2 AND OPCODE2B ≠ H41.3]'; (Query 1089) Code H41.3 added to Denominator
10	(Query 1089) Code H41.3 added to Denominator
11	(Query 1089) Code H41.3 added to Denominator

QPI	Summary of changes (excluding formatting changes) (August 2015)
3	Amended layout of numerator and amended denominator to and not ([OPCODE2 = H20.1 OR H20.2 OR H20.3 OR H20.4 OR H20.8 OR H23.1 OR H23.2 OR H23.3 OR H23.4 OR H23.8 OR H26.2 OR H26.3 OR H26.4 OR H26.8] AND [OPCODE2 = 96] AND [FINSURGDATE = DEFTREATDATE])

QPI	Summary of changes (excluding formatting changes) (May 2015)
1	Denominator (i) text amended to "All patients with colon cancer. (Excluding patients who refuse investigation, patients who undergo emergency surgery and patients undergoing supportive care only)"; Type of First Treatment not coded as Supportive Care Only – AND [MODE<>7] added Denominator (ii) text amended to "All patients with rectal cancer undergoing definitive treatment (chemoradiotherapy or surgical resection) (Excluding patients who refuse investigation, patients who undergo emergency surgery and patients with a contraindication to MRI)."; Staging Investigations Complete (Pre-treatment) not coded as contraindication to MRI - AND [SINVEST <> 4 added NR Exclusions (i) inserted [SINVEST =99] OR [PRESENT =99] OR [MODE=99]
2	Denominator delete AND [OPCODE2 AND OPCODE2B ≠ H41.3]
3	Numerator changed to Date Discussed by Care Team (MDT) not coded as not applicable; AND Date Discussed by Care Team (MDT) is before or equal to Date of Definitive Treatment OR Date of Definitive Treatment is equal to not applicable. [MDTDATE <> 10/10/1010] AND ([MDTDATE ≤ DEFTREATDATE] OR [DEFTREATDATE = 10/10/1010])Denominator text added "patients undergoing emergency surgery and patients undergoing treatment with endoscopic polypectomy only"; added AND 'Presentation Type' not coded As emergency; AND 'Surgery Performed' not coded as endoscopic polypectomy only - AND [PRESENT<>2] AND ([OPCODE2 <> H20.1 OR H20.2 OR H20.3 OR H20.4 OR H20.8 OR H23.1 OR H23.2 OR H23.3 OR H23.4 OR H23.8 OR H26.2 OR H26.3 OR H26.4 OR H26.8] AND [OPCODE2 <> 96])
5	Denominator delete AND [OPCODE2 AND OPCODE2B ≠ H41.3]
6	Additional text added to description "Some patients may receive only long course radiotherapy without chemotherapy, due to co-morbidities or fitness levels, these patients will be included within the measurement of this QPI"; Denominator "or Long Course Radiotherapy Only" – OR 3] added; Denominator delete AND [OPCODE2 AND OPCODE2B ≠ H41.3]
7	Description altered to "Proportion of patients with rectal cancer who undergo surgical resection in which the circumferential margin is clear of tumour"; Numerator altered – removed 'tumour is present at' inserted 'is clear of tumour'; Cirumferential Margin involved coded as Not Involved instead of Involved (CIRCMARGIN = changed from 1 to 2); Denominator delete AND [OPCODE2 AND OPCODE2B ≠ H41.3]
9	Description amended – removed (iii) and added the following text to (ii) "(including anterior resection with TME)" Denominator (ii) amended to (including anterior resection with TME and no exclusions); and Total mesorectal excision not coded as Yes removed and involving anastomosis of the rectum replaces colon; OPCODES OR H04.2 OR H04.3 OR H33.2 added; AND [TEXCISION <> 1] removed ; NR Exclusion (ii) [TEXCISION=99] removed; NR Denominator (iii) [SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99] OR [TEXCISION = 99] removed.
10	Title amended "and 90" added; Description amended to include "or 90"; Numerator (ii) added containing "Number of patients with colorectal cancer who undergo emergency or elective surgical resection who die within 90 days of surgery." - Date of death minus Date of Final Definitive Surgery is less than or equal to 90 days - [DOD – FINSURGDATE ≤ 90] AND [DOD <> 10/10/1010]; Denomintor now (i) and (ii); Denominator delete AND [OPCODE2 AND OPCODE2B ≠ H41.3]
11	Denominator remove 'no exclusion' and insert "Excludes patients who refuse chemotherapy"; Add and Adjuvant/Primary/Palliative Oncology Treatment Type {Colorectal Cancer} not coded as Patient Refused SACT - AND [ADJONC<>84]; High Risk Dukes B remove AND [EXTRA = 1 OR 2]; NR Exclusion delete N/A and inserted [ADJONC = 99]; NR Denominator removed OR[EXTRA = 99], delete AND [OPCODE2 AND OPCODE2B ≠ H41.3]
12	Title amended "and 90" added; Description amended to include "or 90"; Numerator (ii) added containing "Number of patients with colorectal cancer who undergo neo-adjuvant chemoradiotherapy, radiotherapy or adjuvant chemotherapy with curative intent who die within 90 days of treatment." - Date of death minus either Date Neo-Adjuvant/Oncology

	Treatment Completed {Colorectal Cancer} OR Date Adjuvant/Primary Oncology Treatment Completed {Colorectal Cancer} is less than or equal to 90 days - Neo-adjuvant chemoradiotherapy [DOD – NEOADJCOM ≤ 90] AND [DOD <> 10/10/1010] - Adjuvant Chemotherapy [DOD – ADJONCOM ≤ 90] AND [DOD <> 10/10/1010] - Radiotherapy ([DOD – NEOADJCOM ≤ 90] AND [NEOONC = 1 OR 3]) OR ([DOD – ADJONCOM ≤ 90] AND [ADJONC = 3 OR 5]) AND [DOD <> 10/10/1010]
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QPI	Summary of changes (excluding formatting changes) (March 2015)
5	Numerator change EXNODES to LNEXTAMINE; NR Numerator change EXNODES to LNEXTAMINE; NR Denominator change [OPCODE2 OR OPCODE2B = 99] to [OPCODE2 AND OPCODE2B = 99]

QPI	Summary of changes (excluding formatting changes) (October 2014)
4	Add G74.1 OR to denominator

QPI	Summary of changes (excluding formatting changes) (September 2014)
7	Denominator - Insert AND [NEOONC <> 2 OR 3 OR 4]
12	Numerator - Insert [NEOONC = 1 OR 3] [ADJONC = 3 OR 5]; NR Numerator - Radiotherapy amended

QPI	Summary of changes (excluding formatting changes) (June 2014)
3	Amended MDT QPI
5	Name change within Denominator – Neo-Adjuvant Oncology Treatment (Rectal Cancer) to Neo-Adjuvant Oncology Treatment (Colorectal Cancer)
6	Name change within Numerator and Denominator – Neo-Adjuvant Oncology Treatment (Rectal Cancer) to Neo-Adjuvant Oncology Treatment (Colorectal Cancer)
7	Name change within Denominator – Neo-Adjuvant Oncology Treatment (Rectal Cancer) to Neo-Adjuvant Oncology Treatment (Colorectal Cancer)
12	Name change within Numerator and Denominator – Neo-Adjuvant Oncology Treatment (Rectal Cancer) to Neo-Adjuvant Oncology Treatment (Colorectal Cancer)

QPI	Summary of changes (excluding formatting changes) (April 2014)
1	Denominator (i) amended to include all relevant SITE codes and all relevant OPCODE codes.
2	Denominator (i) amended to include all relevant SITE codes and all relevant OPCODE codes.
3	New MDT QPI measurability.
4	Previously QPI 3.
5	Previously QPI 4. Denominator (i) amended to include all relevant SITE codes and all relevant OPCODE codes.
6	Previously QPI 5. Denominator (i) amended to include all relevant OPCODE codes.
7	Previously QPI 6.
8	Previously QPI 7.
9	Previously QPI 8. Denominator (i) amended to include all relevant SITE codes.
10	Previously QPI 9. Denominator (i) amended to include all relevant SITE codes and all relevant OPCODE codes.
11	Previously QPI 10. Denominator (i) amended to include all relevant SITE codes and all relevant OPCODE codes.
12	Previously QPI 11. Denominator (i) amended to include all relevant SITE codes.

QPI 1: Radiological Diagnosis and Staging

QPI Title:	Patients with colorectal cancer should be evaluated with appropriate imaging to detect extent of disease and guide treatment decision making.	
Description:	Proportion of patients with colorectal cancer who undergo CT chest, abdomen and pelvis (colorectal cancer) plus MRI pelvis (rectal cancer only) before definitive treatment.	
Specification (i)	Numerator (i):	Number of patients with colon cancer who undergo CT chest, abdomen and pelvis before definitive treatment. Staging Investigations Complete (Pre-treatment) [SINVEST] coded as: Complete – CT Chest, Abdomen and Pelvis [SINVEST = 1]
	Denominator (i):	All patients with colon cancer. (Excluding patients who refuse investigation, patients who undergo emergency surgery and patients undergoing supportive care only). Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Colon; and Staging Investigations Complete (Pre-treatment) not coded as Patient refused investigations; and Presentation Type not coded as Emergency and Type of First Treatment not coded as Supportive Care Only [SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9] AND [SINVEST <> 95] AND [PRESENT <> 2] AND [FIRSTTREATMODE<>7]
Specification (ii)	Numerator (ii):	All patients with rectal cancer undergoing definitive treatment (chemoradiotherapy or surgical resection) who undergo CT chest, abdomen and pelvis and MRI pelvis before definitive treatment. Staging Investigations Complete (Pre-treatment) [SINVEST] coded as: Complete – CT Chest, Abdomen and Pelvis and pelvic MRI [SINVEST = 2]
	Denominator (ii):	All patients with rectal cancer undergoing definitive treatment (chemoradiotherapy or surgical resection) (Excluding patients who refuse investigation, patients who undergo emergency surgery). and patients with a contraindication to MRI Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as rectum; and (Type of Neoadjuvant Oncology Treatment Type {Colorectal Cancer} coded as Long Course Radiotherapy with Chemotherapy (Chemoradiotherapy); and Final Definitive (or Only) Surgery Performed (Surgery) {Colorectal Cancer} coded as surgical resection; and Staging Investigations Complete (Pre-treatment) not coded as Patient refused investigations and Presentation Type not coded as Emergency; and Staging Investigations Complete (Pre-treatment) not coded as contraindication to MRI [SITE = C20.9] AND ([NEOONC = 2] OR ([OPCODE2 OR OPCODE2B = H04.1 OR H04.2 OR H04.3 OR H04.8 OR H05.1 OR H05.2 OR H05.3 OR H05.8 OR H06.1 OR H06.2 OR H06.3 OR H06.4 OR H06.5 OR H06.8 OR H07.1 OR H07.2 OR H07.3 OR H07.4 OR H07.5 OR H07.8 OR H08.1 OR H08.2 OR H08.3 OR H08.4 OR H08.5 OR H08.6 OR H08.8 OR H09.1 OR H09.2 OR H09.3 OR H09.4 OR H09.5 OR H09.6 OR H09.8 OR H10.1 OR H10.2 OR H10.3 OR H10.5 OR H10.6 OR H10.8 OR H11.1 OR

		H11.2 OR H11.3 OR H11.4 OR H11.5 OR H11.6 OR H11.8 OR H12.1 OR H12.2 OR H12.3 OR H12.8 OR H29.1 OR H29.2 OR H29.3 OR H29.4 OR H29.8 OR H29.9 OR H33.1 OR H33.2 OR H33.3 OR H33.4 OR H33.5 OR H33.6 OR H33.8 OR H40.1 OR H40.2 OR H40.4 OR H41.1 OR H41.2 OR OR H41.4 OR H41.8] AND [OPCODE2 AND OPCODE2B ≠ H41.3]) AND [SINVEST <> 95] AND [PRESENT <> 2] AND [SINVEST <> 4]
Not recorded for numerator	Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target (i) and (ii) [SINVEST = 99]	
Not recorded for exclusion	Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard. (i) [SINVEST =99] OR [PRESENT =99] OR [FIRSTTREATMODE=99] (ii) [SINVEST =99] OR [PRESENT =99]	
Not recorded for denominator	Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard (i) [SITE = C99.X] (ii) [SITE = C99.X] OR [NEOONC = 99] OR [OPCODE2 OR OPCODE2B = 99]	

QPI 2: Pre-Operative Imaging of the Colon

QPI Title:	Patients with colorectal cancer undergoing surgical resection should have the whole colon visualised pre-operatively.
Description:	Proportion of patients with colorectal cancer who undergo surgical resection who have the whole colon visualised by colonoscopy or CT Colonography pre-operatively, unless the non-visualised segment of colon is to be removed.
Numerator:	Number of patients who undergo elective surgical resection for colorectal cancer who have the whole colon visualised by colonoscopy or CT Colonography before surgery, unless the non visualised segment of the colon has been removed. Large bowel imaging coded as Yes – Colonoscopy or CT Colonography [LBTYPE = 1]
Denominator:	All patients who undergo elective surgical resection for colorectal cancer. (No exclusions). Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Colorectal; and surgery performed coded as surgical resection; and Presentation Type coded as Elective. [SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [OPCODE2 OR OPCODE2B = H04.1 OR H04.2 OR H04.3 OR H04.8 OR H05.1 OR H05.2 OR H05.3 OR H05.8 OR H06.1 OR H06.2 OR H06.3 OR H06.4 OR H06.5 OR H06.8 OR H07.1 OR H07.2 OR H07.3 OR H07.4 OR H07.5 OR H07.8 OR H08.1 OR H08.2 OR H08.3 OR H08.4 OR H08.5 OR H08.6 OR H08.8 OR H09.1 OR H09.2 OR H09.3 OR H09.4 OR H09.5 OR H09.6 OR H09.8 OR H10.1 OR H10.2 OR H10.3 OR H10.5 OR H10.6 OR H10.8 OR H11.1 OR H11.2 OR H11.3 OR H11.4 OR H11.5 OR H11.6 OR H11.8 OR H12.1 OR H12.2 OR H12.3 OR H12.8 OR H29.1 OR H29.2 OR H29.3 OR H29.4 OR H29.8 OR H29.9 OR H33.1 OR H33.2 OR H33.3 OR H33.4 OR H33.5 OR H33.6 OR H33.8 OR H40.1 OR H40.2 OR H40.4 OR H41.1 OR H41.2 OR H41.3 OR H41.4 OR H41.8] AND [PRESENT = 1]
Not recorded for numerator	Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target [LBTYPE = 99]
Not recorded for exclusion	Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard. N/A
Not recorded for denominator	Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard [SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99] OR [PRESENT = 99]

QPI 3: Multi-Disciplinary Team (MDT) Meeting

QPI Title:	Patients with newly diagnosed colorectal cancer should be discussed by a multi-disciplinary team prior to definitive treatment.
Description:	Proportion of patients with colorectal cancer who are discussed at MDT meeting before definitive treatment.
Numerator	<p>Number of patients with colorectal cancer discussed at the MDT before definitive treatment.</p> <p>Date Discussed by Care Team (MDT) not coded as not applicable; AND Date Discussed by Care Team (MDT) is before or equal to Date of Definitive Treatment OR Date of Definitive Treatment is equal to not applicable. MDTDATE <> 10/10/1010] AND ([MDTDATE ≤ DEFTREATDATE] OR [DEFTREATDATE = 10/10/1010])</p>
Denominator	<p>All patients diagnosed with colorectal cancer (excluding patients who died before first treatment patients undergoing emergency surgery and patients undergoing treatment with endoscopic polypectomy only).</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; AND 'Site of Origin of Primary Tumour' coded as colorectal cancer; AND Type of First Cancer Treatment not equal to Patient died before treatment AND 'Presentation Type' not coded as Emergency; AND 'Surgery Performed' not coded as endoscopic polypectomy only AND Surgery Performed equal to Not applicable AND Date of Final Definitive (or Only) Surgery equal to Date of Definitive Treatment</p> <p>[SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [FIRSTTREATMODE <> 94] AND [PRESENT<>2] AND ([OPCODE2 <> H20.1 OR H20.2 OR H20.3 OR H20.4 OR H20.8 OR H23.1 OR H23.2 OR H23.3 OR H23.4 OR H23.8 OR H26.2 OR H26.3 OR H26.4 OR H26.8] AND [OPCODE2 = 96] AND [FINSURGDATE = DEFTREATDATE])</p>
Not recorded for numerator	<p>Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target</p> <p>[MDTDATE = 09/09/0909] OR [DEFTREATDATE = 09/09/0909]</p>
Not recorded for exclusion	<p>Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard.</p> <p>[FIRSTTREATMODE = 99] OR [PRESENT = 99] OR [OPCODE2 OR OPCODE2B = 99]</p>
Not recorded for denominator	<p>Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard</p> <p>[SITE = C99X]</p>

QPI 4: Stoma Care

QPI Title:	Patients with colorectal cancer who require a stoma are assessed and have their stoma site marked pre-operatively by a nurse with expertise in stoma care.
Description:	Proportion of patients with colorectal cancer who undergo elective surgical resection which involves stoma creation who are seen and have their stoma site marked pre-operatively by a nurse with expertise in stoma care.
Numerator:	<p>Number of patients with colorectal cancer who undergo elective surgical resection which involves stoma creation who are seen by and have their stoma site marked preoperatively by a nurse with expertise in stoma care.</p> <p>Seen by Stoma Nurse coded as Yes; AND Date Seen by Stoma Nurse {Colorectal Cancer} less than or equal to Date of Final Definitive (or Only) Surgery {Colorectal Cancer}; AND Stoma Site Marked Pre-operatively coded as yes.</p> <p>[STOMANURSE=1] AND [STOMANDATE ≤ FINSURGDATE] AND [STOMAMARK = 1]</p>
Denominator:	<p>All patients with colorectal cancer who undergo elective surgical resection which involves stoma creation. (Excludes patients who refuse to be seen by a nurse with expertise in stoma care).</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Colorectal; and Presentation Type coded as Elective; and Final definitive (or Only) surgery performed coded as surgical resection which involves stoma creation; and Seen by Stoma Nurse not coded as Refused.</p> <p>[SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [PRESENT = 1] AND [OPCODE2 OR OPCODE 2B = H04.1 OR H05.2 OR H05.3 OR H06.4 OR H07.4 OR H08.4 OR H08.5 OR H09.4 OR H09.5 OR H10.4 OR H10.5 OR H11.4 OR H11.5 OR H15.1 OR H15.2 OR H33.1 OR H33.5 OR H33.6 OR G74.1 OR G74.2 OR G74.3] AND [STOMANURSE <> 95]</p>
Not recorded for numerator	<p>Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target</p> <p>[STOMANURSE = 99] OR [STOMAMARK = 99] OR [STOMANDATE = 09/09/0909] OR [FINSURGDATE = 09/09/0909]</p>
Not recorded for exclusion	<p>Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard.</p> <p>[STOMANURSE = 99]</p>
Not recorded for denominator	<p>Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard</p> <p>[SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99] OR [PRESENT = 99]</p>

QPI 5: Lymph Node Yield

QPI Title:	In patients undergoing resection for colorectal cancer the number of lymph nodes examined should be maximised.
Description:	Proportion of patients with colorectal cancer who undergo surgical resection where ≥ 12 lymph nodes are pathologically examined.
Numerator:	Number of patients with colorectal cancer who undergo curative surgical resection where ≥ 12 lymph nodes are pathologically examined. Total number of lymph nodes examined microscopically after final surgery is more than or equal to 12. [LNEXAMINE \geq 12]
Denominator:	All patients with colorectal cancer who undergo curative surgical resection (with or without neo-adjuvant short course radiotherapy). (Excludes patients with rectal cancer who undergo long course neo-adjuvant chemo radiotherapy or radiotherapy; and patients who undergo transanal endoscopic microsurgery or transanal resection of tumour). Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour [SITE] coded as Colorectal; and surgery performed coded as surgical resection; and Intent of Surgery coded as curative; and where Site of Origin of Primary Tumour coded as rectum then Neo-Adjuvant Oncology Treatment Type (Colorectal Cancer) not coded as Long Course Radiotherapy with Chemotherapy (Chemoradiotherapy), or Long Course Radiotherapy only; and Surgical Approach not coded as transanal endoscopic microsurgery or transanal resection of tumour. [SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [OPCODE2 OR OPCODE2B = H04.1 OR H04.2 OR H04.3 OR H04.8 OR H05.1 OR H05.2 OR H05.3 OR H05.8 OR H06.1 OR H06.2 OR H06.3 OR H06.4 OR H06.5 OR H06.8 OR H07.1 OR H07.2 OR H07.3 OR H07.4 OR H07.5 OR H07.8 OR H08.1 OR H08.2 OR H08.3 OR H08.4 OR H08.5 OR H08.6 OR H08.8 OR H09.1 OR H09.2 OR H09.3 OR H09.4 OR H09.5 OR H09.6 OR H09.8 OR H10.1 OR H10.2 OR H10.3 OR H10.5 OR H10.6 OR H10.8 OR H11.1 OR H11.2 OR H11.3 OR H11.4 OR H11.5 OR H11.6 OR H11.8 OR H12.1 OR H12.2 OR H12.3 OR H12.8 OR H29.1 OR H29.2 OR H29.3 OR H29.4 OR H29.8 OR H29.9 OR H33.1 OR H33.2 OR H33.3 OR H33.4 OR H33.5 OR H33.6 OR H33.8 OR H40.1 OR H40.2 OR H40.4 OR H41.1 OR H41.2 OR H41.3 OR H41.4 OR H41.8] AND [OPINTENT = 1] AND NOT ([SITE = C20] AND [NEOONC = 2 OR 3]) AND [SURGAPPR <> (3 OR 4)] .
Not recorded for numerator	Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target [LNEXAMINE=9999].
Not recorded for exclusion	Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard. [NEOONC=99] OR [SURGAPPR=99] <i>NB: Not recorded for SITE excluded from denominator and identified in not recorded for denominator section</i>
Not recorded for denominator	Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard [SITE = C99.X] OR [OPCODE2 AND OPCODE2B = 99] OR [OPINTENT = 99]

QPI 6: Neo-adjuvant Radiotherapy

QPI Title:	Patients with locally advanced rectal cancer should receive neo-adjuvant chemoradiotherapy designed to facilitate a margin-negative resection.
Description:	<p>Proportion of patients with locally advanced rectal cancer with threatened or involved circumferential resection margin (CRM) on preoperative MRI who receive long course neo-adjuvant chemoradiotherapy designed to facilitate a margin-negative resection.</p> <p>Some patients may receive only long course radiotherapy without chemotherapy, due to co-morbidities or fitness levels, these patients will be included within the measurement of this QPI</p>
Numerator:	<p>Number of patients with rectal cancer with a threatened or involved CRM on preoperative MRI undergoing surgery who receive long course neo-adjuvant chemoradiotherapy</p> <p>Neo-Adjuvant Oncology Treatment Type (Colorectal Cancer) coded as Long Course Radiotherapy with Chemotherapy (Chemoradiotherapy or Long Course Radiotherapy Only).</p> <p>[NEOONC = 2 OR 3]</p>
Denominator:	<p>All patients with rectal cancer with a threatened or involved CRM on preoperative MRI undergoing surgery. (Excludes patients who refused radiotherapy, patients in whom radiotherapy is contraindicated and patients who presented as an emergency for surgery).</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Rectum; and Circumferential Resection Margin coded as threatened or involved; and Final Definitive (or Only) Surgery Performed coded as surgical resection and Final Definitive (or Only) Surgery Performed not coded as Peranal Destruction of Lesion of Rectum; and Neo-Adjuvant Oncology Treatment Type (Colorectal Cancer) not coded as Patient refused radiotherapy treatment or radiotherapy contraindicated; and Presentation Type not coded as emergency.</p> <p>[SITE = C20.9] AND [CMARGINPREDICT = 2 OR 3] AND [OPCODE2 OR OPCODE2B = H04.1 OR H04.2 OR H04.3 OR H04.8 OR H05.1 OR H05.2 OR H05.3 OR H05.8 OR H06.1 OR H06.2 OR H06.3 OR H06.4 OR H06.5 OR H06.8 OR H07.1 OR H07.2 OR H07.3 OR H07.4 OR H07.5 OR H07.8 OR H08.1 OR H08.2 OR H08.3 OR H08.4 OR H08.5 OR H08.6 OR H08.8 OR H09.1 OR H09.2 OR H09.3 OR H09.4 OR H09.5 OR H09.6 OR H09.8 OR H10.1 OR H10.2 OR H10.3 OR H10.5 OR H10.6 OR H10.8 OR H11.1 OR H11.2 OR H11.3 OR H11.4 OR H11.5 OR H11.6 OR H11.8 OR H12.1 OR H12.2 OR H12.3 OR H12.8 OR H29.1 OR H29.2 OR H29.3 OR H29.4 OR H29.8 OR H29.9 OR H33.1 OR H33.2 OR H33.3 OR H33.4 OR H33.5 OR H33.6 OR H33.8 OR H40.1 OR H40.2 OR H40.4 OR H41.1 OR H41.2 OR H41.3 OR H41.4 OR H41.8] AND [NEOONC <> 83 OR 86] AND [PRESENT <> 2]</p>
Not recorded for numerator	<p>Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target</p> <p>[NEOONC = 99]</p>
Not recorded for exclusion	<p>Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard.</p> <p>[NEOONC = 99] OR [PRESENT = 99]</p>

Not recorded for denominator	Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard [SITE = C99.X] OR [CMARGINPREDICT = 99] OR [OPCODE2 OR OPCODE 2B = 99]
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QPI 7: Surgical Margins

QPI Title:	Rectal cancers undergoing surgical resection should be adequately excised.
Description:	<p>Proportion of patients with rectal cancer who undergo surgical resection in which the circumferential margin is clear of tumour.</p> <p>Please note: The specifications of this QPI are separated to ensure clear measurement of both patients who receive:</p> <ul style="list-style-type: none"> (i) Primary surgery, or surgery following neo-adjuvant short course radiotherapy; and (ii) Surgery following neo-adjuvant long course radiotherapy or chemoradiotherapy.
Numerator (i) and (ii):	<p>Number of patients with rectal cancer who undergo elective primary surgical resection or surgical resection following short course neo-adjuvant radiotherapy , or Number of patients with rectal cancer who undergo elective surgical resection following neo-adjuvant long course radiotherapy or chemoradiotherapy, in which the circumferential margin is clear of tumour.</p> <p>Circumferential Margin Involved (Surgical Resection Specimen) {Colorectal Cancer} is coded as Not Involved</p> <p>[CIRCMARGIN = 2]</p>
Denominator (i):	<p>All patients with rectal cancer who undergo elective primary surgical resection or surgical resection following short course neo-adjuvant radiotherapy. (Excludes Patients who undergo transanal endoscopic microsurgery or transanal resection of tumour.)</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Rectum; and surgery performed coded as surgical resection; and either first cancer treatment coded as Surgery and Presentation for Surgery coded as Elective AND Neo-Adjuvant Oncology Treatment Type (Rectal Colorectal Cancer) not coded as long course radiotherapy with Chemotherapy (Chemoradiotherapy) or Long Course Radiotherapy only or Chemotherapy, OR Neo-Adjuvant Oncology Treatment Type (Colorectal Cancer) coded as Short Course Radiotherapy AND Date of Final Definitive (or Only) Surgery {Colorectal Cancer} is after Date Neo-Adjuvant/Oncology Treatment Completed {Colorectal Cancer}; AND Surgical Approach not coded as Transanal Endoscopic Microsurgery or Transanal Resection of Tumour.</p> <p>[SITE = 20.9] AND [OPCODE2 OR OPCODE2B = H04.1 OR H04.2 OR H04.3 OR H04.8 OR H05.1 OR H05.2 OR H05.3 OR H05.8 OR H06.1 OR H06.2 OR H06.3 OR H06.4 OR H06.5 OR H06.8 OR H07.1 OR H07.2 OR H07.3 OR H07.4 OR H07.5 OR H07.8 OR H08.1 OR H08.2 OR H08.3 OR H08.4 OR H08.5 OR H08.6 OR H08.8 OR H09.1 OR H09.2 OR H09.3 OR H09.4 OR H09.5 OR H09.6 OR H09.8 OR H10.1 OR H10.2 OR H10.3 OR H10.5 OR H10.6 OR H10.8 OR H11.1 OR H11.2 OR H11.3 OR H11.4 OR H11.5 OR H11.6 OR H11.8 OR H12.1 OR H12.2 OR H12.3 OR H12.8 OR H29.1 OR H29.2 OR H29.3 OR H29.4 OR H29.8 OR H29.9 OR H33.1 OR H33.2 OR H33.3 OR H33.4 OR H33.5 OR H33.6 OR H33.8 OR H40.1 OR H40.2 OR H40.4 OR H41.1 OR H41.2 OR H41.3 OR H41.4 OR H41.8] AND (([FIRSTTREATMODE = 1] AND [PRESENT = 1] AND [NEOONC <> 2 OR 3 OR 4]) OR ([NEOONC = 1] AND [FINSURGDATE > NEOADJCOM])) AND [SURGAPPR <> 3 OR 4].</p>
Denominator (ii):	<p>All patients with rectal cancer who undergo elective surgical resection following neo-adjuvant long course radiotherapy or chemoradiotherapy. (Excludes patients who undergo transanal endoscopic microsurgery and patients undergoing transanal resection of tumour).</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Rectum; and surgery performed coded as surgical resection; and Presentation for Surgery coded as Elective; and Neo-Adjuvant Oncology Treatment Type (Colorectal Cancer) coded as Long Course Radiotherapy with Chemotherapy (Chemoradiotherapy) or Long Course Radiotherapy only and surgical approach not coded as Transanal Endoscopic Microsurgery or Transanal Resection of Tumour; AND Date of Final Definitive (or Only) Surgery {Colorectal Cancer} is after Date Neo-Adjuvant/Oncology Treatment Completed {Colorectal Cancer}</p>

	[SITE = 20.9] AND [OPCODE2 OR OPCODE2B = H04 OR H05 OR H06 OR H07 OR H08 OR H09 OR H10 OR H11 OR H12 OR H29 OR H33 OR H40.1 OR H40.2 OR H40.4 OR H41] AND [PRESENT = 1] AND [NEOONC = 2 OR 3] AND [SURGAPPR <> (3 OR 4)] AND [FINSURGDATE > NEOADJCOM].
Not recorded for numerator	Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target (i) and (ii) [CIRCMARGIN=99]
Not recorded for exclusion	Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard. (i) and (ii) [SURGAPPR=99]
Not recorded for denominator	Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard (i) [SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99] OR [FIRSTTREATMODE = 99] OR [PRESENT = 99] OR [NEOONC = 99] OR [FINSURGDATE = 09/09/0909] OR [NEOADJCOM = 09/09/0909] (ii) [SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99] OR [PRESENT = 99] OR [NEOONC = 99] OR [FINSURGDATE = 09/09/0909] OR [NEOADJCOM = 09/09/0909]

QPI 8: Re-operation Rates

QPI Title:	For patients undergoing surgery for colorectal cancer re-operation should be minimised.
Description:	Proportion of patients who undergo surgical resection for colorectal cancer who return to theatre to deal with complications related to the index procedure (within 30 days of surgery).
Numerator: Number of patients with colorectal cancer who undergo surgical resection who return to theatre following initial surgical procedure (within 30 days of surgery) to deal with complications related to the index procedure.	
Denominator: All patients with colorectal cancer who undergo surgical resection.	
Exclusions: No exclusions	
It is intended that SMR01 data will be utilised to support reporting and monitoring of this QPI rather than clinical audit. This will maximise the use of data which are already collected and remove the need for any duplication of data collection. Standard reports will be specified once the QPI has been finalised. The intention would then be for each Board to have direct access to run these to ensure nationally consistent analysis and reporting.	

QPI 9: Anastomotic Dehiscence

QPI Title:	For patients who undergo surgical resection for colorectal cancer anastomotic dehiscence should be minimised.
Description:	<p>Proportion of patients who undergo surgical resection for colorectal cancer with anastomotic leak as a post operative complication.</p> <p>Please note: The specifications of this QPI are separated to ensure clear measurement of patients who undergo:</p> <ul style="list-style-type: none"> (i) Colonic anastomosis; (ii) Rectal anastomosis (including anterior resection with TME)
Numerator:	<p>Number of patients with colorectal cancer who undergo a surgical procedure involving anastomosis of the colon; or rectum; or patients with rectal cancer who undergo anterior resection and TME; having anastomotic leak requiring intervention (radiological or surgical).</p> <p>Anastomotic Leak coded as Yes.</p> <p>[ANASLEAK = 1]</p>
Denominator (i):	<p>All patients with colorectal cancer who undergo a surgical procedure involving anastomosis of the colon. (No exclusions).</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Colorectal; and surgery performed coded as surgical procedure involving anastomosis of the colon.</p> <p>[SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [OPCODE2 OR OPCODE2B = H06.1 OR H06.2 OR H06.3 OR H06.5 OR H07.1 OR H07.2 OR H07.3 OR H07.5 OR H08.1 OR H08.2 OR H08.3 OR H08.6 OR H09.2 OR H09.3 OR H09.6 OR H10.6 OR H11.1 OR H11.2 OR H11.3 OR H11.6 OR H29.1 OR H29.3].</p>
Denominator (ii):	<p>All patients with colorectal cancer who undergo a surgical procedure involving anastomosis of the rectum. (including anterior resection with TME, no exclusions).</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Colorectal; and surgery performed coded as surgical procedure involving anastomosis of the rectum.</p> <p>[SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [OPCODE2 OR OPCODE2B = H05.1 OR H09.1 OR H10.1 OR H10.2 OR H10.3 OR H33.3 OR H33.4 OR H04.2 OR H04.3 OR H33.2]</p>

Not recorded for numerator	<p>Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target</p> <p>[ANASLEAK = 99]</p>
Not recorded for exclusion	<p>Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard.</p> <p>(i) and (ii) N/A</p>
Not recorded for denominator	<p>Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard</p> <p>(i) and (ii) [SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99]</p>

QPI 10: 30 and 90 Day Mortality Following Surgical Resection

QPI Title:	Mortality after surgical resection for colorectal cancer.
Description:	Proportion of patients with colorectal cancer who die within 30 or 90 days of emergency or elective surgical resection.
Numerator (i):	<p>Number of patients with colorectal cancer who undergo emergency or elective surgical resection who die within 30 days of surgery.</p> <p>Date of death minus Date of Final Definitive Surgery is less than or equal to 30 days</p> <p>[DOD – FINSURGDATE ≤ 30] AND [DOD <> 10/10/1010]</p>
Numerator (ii):	<p>Number of patients with colorectal cancer who undergo emergency or elective surgical resection who die within 90 days of surgery.</p> <p>Date of death minus Date of Final Definitive Surgery is less than or equal to 90 days</p> <p>[DOD – FINSURGDATE ≤ 90] AND [DOD <> 10/10/1010]</p>
Denominator (i) and (ii):	<p>All patients with colorectal cancer who undergo emergency or elective surgical resection. (No exclusions).</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Site of Origin of Primary Tumour coded as Colorectal; and Surgery performed coded as surgical resection; and Presentation Type coded as Emergency or Elective (presented separately)</p> <p>[SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [OPCODE2 OR OPCODE2B = H04.1 OR H04.2 OR H04.3 OR H04.8 OR H05.1 OR H05.2 OR H05.3 OR H05.8 OR H06.1 OR H06.2 OR H06.3 OR H06.4 OR H06.5 OR H06.8 OR H07.1 OR H07.2 OR H07.3 OR H07.4 OR H07.5 OR H07.8 OR H08.1 OR H08.2 OR H08.3 OR H08.4 OR H08.5 OR H08.6 OR H08.8 OR H09.1 OR H09.2 OR H09.3 OR H09.4 OR H09.5 OR H09.6 OR H09.8 OR H10.1 OR H10.2 OR H10.3 OR H10.5 OR H10.6 OR H10.8 OR H11.1 OR H11.2 OR H11.3 OR H11.4 OR H11.5 OR H11.6 OR H11.8 OR H12.1 OR H12.2 OR H12.3 OR H12.8 OR H29.1 OR H29.2 OR H29.3 OR H29.4 OR H29.8 OR H29.9 OR H33.1 OR H33.2 OR H33.3 OR H33.4 OR H33.5 OR H33.6 OR H33.8 OR H40.1 OR H40.2 OR H40.4 OR H41.1 OR H41.2 OR H41.3 OR H41.4 OR H41.8]</p> <p><u>Emergency</u> AND [PRESENT = 2]</p> <p><u>Elective</u> AND [PRESENT = 1]</p>
Not recorded for numerator	<p>Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target</p> <p>[DOD = 09/09/0909] OR [FINSURGDATE = 09/09/0909].</p>
Not recorded for exclusion	<p>Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard.</p> <p>N/A</p>

Not recorded for denominator	Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard [SITE = C99.X] AND [OPCODE2 OR OPCODE2B = 99] OR [PRESENT=99]
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QPI 11: Adjuvant Chemotherapy

QPI Title:	Patients with Dukes C and high risk Dukes B colorectal cancer should be considered for adjuvant chemotherapy.
Description:	Proportion of patients with between 50 and 74 years of age at diagnosis with Dukes C, or high risk Dukes B ,colorectal cancer who receive adjuvant chemotherapy.
Numerator:	<p>Number of patients between 50 and 74 years of age at diagnosis with Dukes C, or high risk Dukes B, colorectal cancer who undergo surgical resection who receive adjuvant chemotherapy.</p> <p>Adjuvant/Primary/Palliative Oncology Treatment Type {Colorectal Cancer} coded as Adjuvant Chemotherapy</p> <p>[ADJONC = 2]</p>
Denominator:	<p>All patients between 50 and 74 years of age at diagnosis with Dukes C, or high risk Dukes B, colorectal cancer who undergo surgical resection. (Excludes: patients who refuse chemotherapy).</p> <p>Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; and Date of Diagnosis minus Date of Birth greater than or equal to 50 and less than or equal to 74 years; and Site of Origin of Primary Tumour coded as Colorectal; and Surgery performed coded as surgical resection; and (to be presented separately) Dukes Classification coded as Dukes C1 or Dukes C2; OR Dukes Classification coded as Dukes B where TNM Tumour Classification (Final) {Colorectal Cancer} coded as 'Tumour directly invades other organs or structures and/or perforates visceral peritoneum' and Adjuvant/Primary/Palliative Oncology Treatment Type {Colorectal Cancer} not coded as Patient Refused SACT</p> <p>[DIAGDATE – DOB ≥ 50 years] AND [DIAGDATE – DOB ≤ 74 years] AND [SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [OPCODE2 OR OPCODE2B = H04.1 OR H04.2 OR H04.3 OR H04.8 OR H05.1 OR H05.2 OR H05.3 OR H05.8 OR H06.1 OR H06.2 OR H06.3 OR H06.4 OR H06.5 OR H06.8 OR H07.1 OR H07.2 OR H07.3 OR H07.4 OR H07.5 OR H07.8 OR H08.1 OR H08.2 OR H08.3 OR H08.4 OR H08.5 OR H08.6 OR H08.8 OR H09.1 OR H09.2 OR H09.3 OR H09.4 OR H09.5 OR H09.6 OR H09.8 OR H10.1 OR H10.2 OR H10.3 OR H10.5 OR H10.6 OR H10.8 OR H11.1 OR H11.2 OR H11.3 OR H11.4 OR H11.5 OR H11.6 OR H11.8 OR H12.1 OR H12.2 OR H12.3 OR H12.8 OR H29.1 OR H29.2 OR H29.3 OR H29.4 OR H29.8 OR H29.9 OR H33.1 OR H33.2 OR H33.3 OR H33.4 OR H33.5 OR H33.6 OR H33.8 OR H40.1 OR H40.2 OR H40.4 OR H41.1 OR H41.2 OR H41.3 OR H41.4 OR H41.8] AND [ADJONC<>84]</p> <p><u>Dukes C</u> AND [DUKES = 3A OR 3B]</p> <p><u>High Risk Dukes B</u> AND [DUKES = 2] AND [FINALT = T4 OR T4A OR T4B]</p>

Not recorded for numerator	<p>Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target</p> <p>[ADJONC = 99]</p>
Not recorded for exclusion	<p>Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard.</p> <p>[ADJONC = 99]</p>
Not recorded for denominator	<p>Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard</p> <p><u>Dukes C:</u> [SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99] OR [DUKES = 99]</p> <p><u>High Risk Dukes B:</u> [SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99] OR [DUKES = 99] OR [FINALT = 99]</p>

QPI 12: 30 and 90 Day Mortality Following Chemotherapy or Radiotherapy

QPI Title:	Mortality after chemotherapy or radiotherapy with curative intent for colorectal cancer.
Description:	Proportion of patients with colorectal cancer who die within 30 or 90 days of chemotherapy or radiotherapy treatment with curative intent.
Numerator (i):	<p>Number of patients with colorectal cancer who undergo neo-adjuvant chemoradiotherapy, radiotherapy or adjuvant chemotherapy with curative intent who die within 30 days of treatment.</p> <p>Date of death minus either Date Neo-Adjuvant/Oncology Treatment Completed {Colorectal Cancer} OR Date Adjuvant/Primary Oncology Treatment Completed {Colorectal Cancer} is less than or equal to 30 days</p> <p><u>Neo-adjuvant chemoradiotherapy</u></p> <p>[DOD – NEOADJCOM ≤ 30] AND [DOD <> 10/10/1010]</p> <p><u>Adjuvant Chemotherapy</u></p> <p>[DOD – ADJONCOM ≤ 30] AND [DOD <> 10/10/1010]</p> <p><u>Radiotherapy</u></p> <p>([DOD – NEOADJCOM ≤ 30] AND [NEOONC = 1 OR 3]) OR ([DOD – ADJONCOM ≤ 30] AND [ADJONC = 3 OR 5]) AND [DOD <> 10/10/1010]</p>
Numerator (ii):	<p>Number of patients with colorectal cancer who undergo neo-adjuvant chemoradiotherapy, radiotherapy or adjuvant chemotherapy with curative intent who die within 90 days of treatment.</p> <p>Date of death minus either Date Neo-Adjuvant/Oncology Treatment Completed {Colorectal Cancer} OR Date Adjuvant/Primary Oncology Treatment Completed {Colorectal Cancer} is less than or equal to 90 days</p> <p><u>Neo-adjuvant chemoradiotherapy</u></p> <p>[DOD – NEOADJCOM ≤ 90] AND [DOD <> 10/10/1010]</p> <p><u>Adjuvant Chemotherapy</u></p> <p>[DOD – ADJONCOM ≤ 90] AND [DOD <> 10/10/1010]</p> <p><u>Radiotherapy</u></p> <p>([DOD – NEOADJCOM ≤ 90] AND [NEOONC = 1 OR 3]) OR ([DOD – ADJONCOM ≤ 90] AND [ADJONC = 3 OR 5]) AND [DOD <> 10/10/1010]</p>
Denominator:	All patients with colorectal cancer who undergo neo-adjuvant chemoradiotherapy, radiotherapy or adjuvant chemotherapy with curative intent. (No exclusions).Date of Diagnosis [DIAGDATE] in range specified for comparative analysis; AND Site of Origin of Primary Tumour coded as Colorectal; AND (presented separately) Neo-Adjuvant Oncology Treatment Type (Colorectal Cancer) coded as Long Course Radiotherapy with

	<p>Chemotherapy (Chemoradiotherapy); OR Neo-Adjuvant Oncology Treatment Type (Colorectal Cancer) coded as Short Course Radiotherapy, Long Course Radiotherapy only; or Adjuvant/Primary/Palliative Oncology Treatment Type {Colorectal Cancer} coded as Adjuvant Radiotherapy, or Primary/Radical Radiotherapy; OR Adjuvant/Primary/Palliative Oncology Treatment Type {Colorectal Cancer} coded as Adjuvant Chemotherapy</p> <p><u>Neo-adjuvant chemoradiotherapy</u> [SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [NEOONC = 2]</p> <p><u>Adjuvant chemotherapy</u> [SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND [ADJONC = 2]</p> <p><u>Radiotherapy</u>[SITE = C18.0 OR C18.1 OR C18.2 OR C18.3 OR C18.4 OR C18.5 OR C18.6 OR C18.7 OR C18.8 OR C18.9 OR C20.9] AND ([NEOONC = 1 OR 3] OR [ADJONC = 3 OR 5])</p>
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<p>Not recorded for numerator</p>	<p>Include in the denominator for measurement against the target. Present as not recorded only if the patient cannot otherwise be identified as having met/not met the target</p> <p><u>Neo-adjuvant chemoradiotherapy</u> [DOD = 09/09/0909] OR [NEOADJCOM = 09/09/0909]</p> <p><u>Adjuvant Chemotherapy</u> [DOD = 09/09/0909] OR [ADJONCOM = 09/09/0909]</p> <p><u>Radiotherapy</u> [DOD = 09/09/0909] OR [NEOADJCOM = 09/09/0909] OR [NEOONC = 99] OR [ADJONCOM = 09/09/0909] OR [ADJONC = 99]</p>
<p>Not recorded for exclusion</p>	<p>Include in the denominator for measurement against the target unless there is other definitive evidence that the record should be excluded. Present as not recorded only where the record cannot otherwise be definitively identified as an inclusion/exclusion for this standard.</p> <p>N/A</p>
<p>Not recorded for denominator</p>	<p>Exclude from the denominator for measurement against the target. Present as not recorded only where the patient cannot otherwise be definitively identified as an inclusion/exclusion for this standard</p> <p><u>Neo-adjuvant chemoradiotherapy</u> [SITE = C99.X] OR [NEOONC = 99]</p> <p><u>Radiotherapy</u> [SITE = C99.X] OR [NEOONC = 99] OR [ADJONC = 99]</p> <p><u>Adjuvant chemotherapy</u> [SITE = C99.X] OR [ADJONC = 99]</p>