



Colorectal Cancer

Measurability of Quality Performance Indicators Version 3.1

To be read in conjunction with:

- Colorectal Cancer Clinical Quality Performance Indicators (Latest published version)
 - 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	3.1
Effective From	1 st April 2016 See NB below	Author	Charlotte Anthony, 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	
3.0	August 2017	Final	Amendments following Formal Review. NB: Formal Review measurability changes apply to patients diagnosed in year 4 data collection (01/04/2016-31/03/2017) with the exception of measures which require new data items. These changes will apply to patients diagnosed in year 5 data collection (01/04/2017-31/03/2018). This will apply to the QPI's listed:	Year 4	1,3,4,5,6,7,9,10,11,12
				Year 5	2,8

3.1	September 2017	Final	Amendments outwith review	1, 2, 3, 5, 6, 7, 8, 10, 11
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Updates from Previous Version

QPI	Summary of changes (excluding formatting changes) (September 2017)
1	Denominator (ii): Add H10.4 and H40.2
2	Denominator: Add H10.4
3	Denominator: Amend: AND NOT ([OPCODE2 <> H20.1 OR H20.2 OR H20.3 OR H20.4 OR H20.5 OR H20.7 OR H20.8 OR H23.1 OR H23.2 OR H23.3 OR H23.4 OR H23.7 OR H23.8 OR H26.2 OR H26.3 OR H26.4 OR H26.8] AND [OPCODE2B = 96] AND [FINSURGDATE = DEFTREATDATE])
5	Denominator: Add H10.4
6	Denominator: Add H10.4
7	Denominator in 7(i) changed as follows: [opcode in list] AND(((FIRSTTREATMODE = 1] AND [PRESENT = 1] AND [NEOONC <> 1 OR 2 OR 3 OR 4]) OR ([NEOONC = 1] AND [FINSURGDATE-NEOADJCOM >0 and < 42 days])) AND [SURGAPPR <> 3 OR 4]. Add AND [PRESENT = 1] AND (([FIRSTTREATMODE = 1] AND [NEOONC <> 1 OR 2 OR 3 OR 4]) OR ([NEOONC = 1] AND [FINSURGDATE -NEOADJCOM >0 and < 42 days])) AND [SURGAPPR <> 3 OR 4]. 7(i)+(ii) Add Opcode H10.4
8	Denominator: Add H10.4
10	Denominator: Add H10.4
11	Denominator: Add H10.4

QPI	Summary of changes (excluding formatting changes) (Formal Review August 2017)
1	Description: inserted the following 'Please note: The specifications of this QPI are separated to ensure clear measurement of both patients with; (i) Colon cancer who undergo CT chest, abdomen and pelvis; and (ii) Rectal cancer who undergo CT chest, abdomen and pelvis, and MRI (pelvis); Denominator (i); inserted 'patients who undergo palliative treatment (chemotherapy, radiotherapy or surgery), and patients who died before first treatment'. amended 'Type of First Treatment' to 'Type of First Cancer Treatment', inserted 'or Patient died before treatment; and Primary/Palliative/Adjuvant Oncology Treatment Type not coded as Palliative radiotherapy, Palliative chemotherapy or Palliative chemoradiotherapy; and Intent of Surgery not coded as Palliative.', amended equation – removed SITE 'C18.1', inserted FIRSTTREATMODE 'OR 94] AND [ADJONC <> 6 OR 7 OR 9] AND [OPINTENT <> 2]'; Denominator (ii): amended description from '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' to 'All patients with rectal cancer undergoing definitive treatment (chemoradiotherapy or surgical resection) (Excluding patients who refuse investigation, patients who undergo emergency surgery, patients with a contraindication to MRI, patients who undergo Transanal Endoscopic Microsurgery (TEM), patients who undergo Transanal Resection of Tumour (TART), patients who undergo palliative treatment (chemotherapy, radiotherapy or surgery), and patients who died before first treatment'; Inserted text 'and Surgical Approach not coded as Transanal Endoscopic Microsurgery (TEM) or Transanal Resection of Tumour (TART); and Primary/Palliative/Adjuvant Oncology Treatment Type not coded as Palliative radiotherapy, Palliative chemotherapy or Palliative chemoradiotherapy, and Intent of Surgery not coded as Palliative; and Type of First Cancer Treatment not coded as Patient died before treatment'. removed 'H40.2 OR H40.4' and 'H41.8' OPCODES; inserted 'X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9' OPCODES; inserted – 'AND [SURGAPPR <> 3 OR 4] AND [ADJONC <> 6 OR 7 OR 9] AND [OPINTENT <> 2] AND [FIRSTTREATMODE <>94]'; NR Exclusion: (i) inserted OR [ADJONC = 99] OR [OPINTENT = 99]', (ii) inserted 'OR [SURGAPPR = 99] OR [ADJONC = 99] OR [OPINTENT = 99] OR [FIRSTTREATMODE =99]'
2	QPI Title: inserted 'elective'; Description: inserted 'elective'; Denominator: removed 'No exclusions', inserted ' Excluding patients who undergo palliative surgery and patients who have incomplete bowel imaging due to obstructing tumour', inserted 'and Intent of Surgery not coded as palliative; and Large Bowel Imaging not coded as Incomplete due to obstructing tumour – AND [OPINTENT <> 2] AND [LBTYPE <> 4]', removed SITE code 'C18.1', removed 'H40.4' and 'H41.8' OPCODES, inserted OPCODES 'X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9'; NR Exclusion: inserted '[OPINTENT =99] OR [LBTYPE =99]'
3	QPI Title: removed the following text ' with newly diagnosed colorectal cancer'; Denominator: removed 'diagnosed', removed SITE code 'C18.1', inserted OPCODES 'H20.5 OR H20.7 OR' and 'H23.7 OR'
4	Denominator: removed SITE code 'C18.1', inserted OPCODES 'OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9'.
5	QPI Title: replaced 'In' with 'For'; Denominator: inserted '(TEM)' and '(TART)', removed SITE code C18.1, removed OPCODES 'H40.4' and 'H41.8', inserted OPCODES 'X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9'. Corrected SITE from C20 to C20.9
6	Changed QPI heading from 'Neo-adjuvant Radiotherapy' to Neo-adjuvant Therapy'; QPI Title: removed 'chemoradio'; Description: removed 'long course' and 'chemoradio', inserted 'defined as', inserted '(i) Long course chemoradiotherapy (ii) Long course radiotherapy (iii) Short course radiotherapy with long course intent (delay to surgery*)', included

	<p>footnote '* Delay to surgery is defined as planned surgery performed a minimum of 6 weeks after completion of neo-adjuvant therapy'; or (iv) Neo-adjuvant chemotherapy, removed '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' Numerator: removed 'long course' and 'chemoradio', inserted 'or Chemotherapy, or Short Course Radiotherapy with Long Course Intent (delay to surgery) where Date of Final Definitive (or Only) Surgery {Colorectal Cancer} is ≥ 42 days after Date Neo-Adjuvant/Oncology Treatment Completed {Colorectal Cancer} - OR 4 OR ([NEOONC = 1] AND [FINSURGDATE] – [NEOADJCOM] ≥ 42 days); Denominator: removed 'radiotherapy' inserted 'neo-adjuvant therapy', removed 'radiotherapy' inserted 'neo-adjuvant therapy', deleted 'radiotherapy', deleted 'radiotherapy', inserted 'treatment', inserted 'for patient', removed OPCODES 'H40.4' and 'H41.8', inserted OPCODES 'OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9', inserted NEOONC codes '84, 85, 87 OR 88'; NR Numerator: inserted 'OR [FINSURGDATE = 09/09/0909] OR [NEOADJCOM = 09/09/0909].</p>
7	<p>Description: inserted 'immediate / early *** – included footnote "*** Immediate / early surgery is defined as surgery performed less than 6 weeks after completion of neo-adjuvant therapy', amended (ii) text from 'Surgery following neo-adjuvant long course radiotherapy or chemoradiotherapy' to 'Surgery following neo-adjuvant chemotherapy, long course chemoradiotherapy, long course radiotherapy, or short course radiotherapy with long course intent (delay to surgery*)'; Numerator (i): text amended from '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' to 'Number of patients with rectal cancer who undergo elective primary surgical resection or immediate/early surgical resection following neo-adjuvant short course radiotherapy in which the circumferential margin is clear of tumour'; Denominator (i): text amended from 'surgical resection following short course neo-adjuvant radiotherapy. (Excludes Patients who undergo transanal endoscopic microsurgery or transanal resection of tumour.)' to 'immediate / early surgical resection following neo-adjuvant short course radiotherapy. (Excludes Patients who undergo Transanal Endoscopic Microsurgery (TEM) or Transanal Resection of Tumour (TART).)', inserted ' within 42 days', removed OPCODES 'H40.4' and 'H41.8', inserted OPCODES 'OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9', amended [FINSURGDATE > NEOADJCOM] to [FINSURGDATE -NEOADJCOM] >0 and < 42 days'; Inserted Numerator (ii): 'Number of patients with rectal cancer who undergo elective surgical resection following neo-adjuvant chemotherapy, long course chemoradiotherapy, long course radiotherapy or short course radiotherapy with long course intent (delay to surgery) in which the circumferential margin is clear of tumour. - Circumferential Margin Involved (Surgical Resection Specimen) {Colorectal Cancer} is coded as Not Involved - [CIRCMARGIN = 2]'; Denominator (ii): text amended from '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)' to 'All patients with rectal cancer who undergo elective surgical resection following neo-adjuvant chemotherapy, long course chemoradiotherapy, long course radiotherapy or short course radiotherapy with long course intent (delay to surgery). (Excludes patients who undergo Transanal Endoscopic Microsurgery (TEM) and patients undergoing Transanal Resection of Tumour (TART))', inserted 'Chemotherapy or' for NEONC 'OR 4', inserted 'or Short Course Radiotherapy where' and '≥ 42 days' and deleted 'and surgical approach not coded as Transanal Endoscopic Microsurgery or Transanal Resection of Tumour; AND' and 'and Surgical Approach not coded as Transanal Endoscopic Microsurgery (TEM) or Transanal Resection of Tumour (TART)' – OR ([NEOONC = 1] AND [FINSURGDATE – NEOADJCOM] ≥ 42 days), removed 'AND [FINSURGDAT > NEOADJCOM]. Removed OPCODES 'H40.4' and 'or H41'. Inserted 'H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14'</p>
8	<p>Replaced Numerator, Denominator – see main body of document for text, deleted Exclusions and inserted NR 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 – [REOPER = 99]'; Inserted NR 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'; Inserted NR 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]'</p>
9	<p>Description: inserted 'and' and 'total mesorectal excision' within (ii); Denominator (i): removed SITE code 'C18.1', removed OPCODE 'OR H29.1 OR H29.3; Denominator (ii): removed SITE code 'C18.1', inserted OPCODE 'OR H29.1 OR H29.3 OR H41.1'</p>
10	<p>Denominator (i) and (ii): removed SITE code 'C18.1', removed OPCODE 'H40.4' and 'H41.8', inserted OPCODE 'X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9'</p>
11	<p>Description: inserted footnotes '† High risk Dukes B colorectal cancer is defined as patients with (pT4a or pT4b disease) with / without extramural venous invasion, or pT3 pN0 M0 with extramural venous invasion.' and '‡ Adjuvant chemotherapy in this instance is defined as chemotherapy treatment which commences within 12 weeks of surgical resection.' Numerator: inserted 'and Date Primary/Palliative/Adjuvant Oncology Treatment Started {Colorectal Cancer} minus Date of Final Definitive (or only) surgery {Colorectal Cancer} is within 84 days – AND [ADJONCDATE – FINSURGDATE ≥ 0 and ≤ 84 days]; Denominator: inserted 'and patients who undergo neo-adjuvant treatment', inserted 'and Neo-adjuvant Oncology Treatment Type {Colorectal Cancer} not coded as Short Course Radiotherapy, Long Course Radiotherapy with Chemotherapy (Chemoradiotherapy), Long Course Radiotherapy only or Chemotherapy - removed SITE code 'C18.1', removed OPCODE 'H40.4' and 'H41.8', inserted OPCODE 'X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9' and 'AND [NEOONC <> 1 OR 2 OR 3 OR 4], inserted under High Risk Dukes B "OR ([DUKES =2] AND [FINALT = T3] AND [FINALN = N0] AND [FINALM = M0] AND [EXTRA =1]); NR Numerator: inserted 'OR [ADJONCDATE = 09/09/0909] OR [FINSURGDATE = 09/09/0909]'; NR Exclusion: inserted 'OR [NEOONC =99]'; NR Denominator: inserted 'OR [FINALN = 99] OR [FINALM = 99] OR [EXTRA = 99]'</p>
12	<p>QPI Title: removed 'with curative intent' inserted 'treatment'; Description: removed 'with curative intent'; Inserted 'Specification (i)'; combined Numerator (i) and Numerator (ii) into Numerator (i); renamed Denominator to 'Denominator (i)' – removed 'C18.1 OR' from Neo-adjuvant chemoradiotherapy, Adjuvant chemotherapy and Radiotherapy; Inserted Specification (ii) Numerator (ii) - Number of patients with colorectal cancer who undergo palliative chemotherapy who die within 30 days of treatment. Date of death minus Date Adjuvant/Primary Oncology Treatment Completed {Colorectal Cancer} is less than or equal to 30 days Palliative Chemotherapy - [DOD – ADJONCOM ≤ 30] AND [DOD <> 10/10/1010]; inserted Denominator (ii) - All patients with colorectal cancer who undergo palliative chemotherapy. (No exclusions).Date of Diagnosis [DIAGDATE] in range specified</p>

	for comparative analysis; AND Site of Origin of Primary Tumour coded as Colorectal; AND (presented separately) Adjuvant/Primary/Palliative Oncology Treatment Type {Colorectal Cancer} coded as Palliative Chemotherapy - Palliative Chemotherapy [SITE = C18.0 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 = 7]; NR Numerator: inserted 'Numerator (i)' and 'Numerator (ii) – Palliative Chemotherapy – [DOD = 09/09/0909] OR [ADJONCOM = 09/09/0909]; NR Denominator: inserted 'Denominator (i) and Denominator (ii) Palliative Chemotherapy {SITE = 99.X] OR [ADJONC = 99]'
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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]

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.

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:	<p>Proportion of patients with colorectal cancer who undergo CT chest, abdomen and pelvis (colorectal cancer) plus MRI pelvis (rectal cancer only) before definitive treatment.</p> <p>Please note: The specifications of this QPI are separated to ensure clear measurement of both patients with:</p> <ul style="list-style-type: none"> (i) Colon cancer who undergo CT chest, abdomen and pelvis; and (ii) Rectal cancer who undergo CT chest, abdomen and pelvis, and MRI (pelvis). 	
Specification (i)	Numerator (i):	<p>Number of patients with colon cancer who undergo CT chest, abdomen and pelvis before definitive treatment.</p> <p>Staging Investigations Complete (Pre-treatment) [SINVEST] coded as: Complete – CT Chest, Abdomen and Pelvis</p> <p>[SINVEST = 1]</p>
	Denominator (i):	<p>All patients with colon cancer. (Excluding patients who refuse investigation, patients who undergo emergency surgery, patients undergoing supportive care only, patients who undergo palliative treatment (chemotherapy, radiotherapy or surgery), and patients who died before first treatment).</p> <p>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 Cancer Treatment not coded as Supportive Care Only or Patient died before treatment; and Primary/Palliative/Adjuvant Oncology Treatment Type not coded as Palliative radiotherapy, Palliative chemotherapy or Palliative chemoradiotherapy; and Intent of Surgery not coded as Palliative.</p> <p>[SITE = C18.0 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 OR 94] AND [ADJONC <> 6 OR 7 OR 9] AND [OPINTENT <> 2]</p>
Specification (ii)	Numerator (ii):	<p>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.</p> <p>Staging Investigations Complete (Pre-treatment) [SINVEST] coded as: Complete – CT Chest, Abdomen and Pelvis and pelvic MRI</p> <p>[SINVEST = 2]</p>
	Denominator (ii):	<p>All patients with rectal cancer undergoing definitive treatment (chemoradiotherapy or surgical resection) (Excluding patients who refuse investigation, patients who undergo emergency surgery, patients with a contraindication to MRI, patients who undergo Transanal Endoscopic Microsurgery (TEM), patients who undergo Transanal Resection of Tumour (TART), patients who undergo palliative treatment (chemotherapy, radiotherapy or surgery), and patients who died before first treatment.</p> <p>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</p>

		<p>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; and Surgical Approach not coded as Transanal Endoscopic Microsurgery (TEM) or Transanal Resection of Tumour (TART); and Primary/Palliative/Adjuvant Oncology Treatment Type not coded as Palliative radiotherapy, Palliative chemotherapy or Palliative chemoradiotherapy; and Intent of Surgery not coded as Palliative; and Type of First Cancer Treatment not coded as Patient died before treatment.</p> <p>[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 H10.4 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 H41.1 OR H41.2 OR H41.4 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9] AND [OPCODE2 AND OPCODE2B ≠ H41.3])) AND [SINVEST <> 95] AND [PRESENT <> 2] AND [SINVEST <> 4] AND [SURGAPPR <> 3 OR 4] AND [ADJONC <> 6 OR 7 OR 9] AND [OPINTENT <> 2] AND [FIRSTTREATMODE <>94]</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>(i) and (ii) [SINVEST = 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) [SINVEST =99] OR [PRESENT =99] OR [FIRSTTREATMODE=99] OR [ADJONC = 99] OR [OPINTENT = 99] (ii) [SINVEST =99] OR [PRESENT =99] OR [SURGAPPR = 99] OR [ADJONC = 99] OR [OPINTENT = 99] OR [FIRSTTREATMODE = 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>(i) [SITE = C99.X] (ii) [SITE = C99.X] OR [NEOONC = 99] OR [OPCODE2 OR OPCODE2B = 99]</p>

QPI 2: Pre-Operative Imaging of the Colon

QPI Title:	Patients with colorectal cancer undergoing elective surgical resection should have the whole colon visualised pre-operatively.
Description:	Proportion of patients with colorectal cancer who undergo elective 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. (Excluding patients who undergo palliative surgery and patients who have incomplete bowel imaging due to obstructing tumour). 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; and Intent of Surgery not coded as palliative; and Large Bowel Imaging not coded as Incomplete due to obstructing tumour. [SITE = C18.0 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 H10.4 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 H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9] AND [PRESENT = 1] AND [OPINTENT <>2] AND [LBTYPE <>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 [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. [OPINTENT = 99] OR [LBTYPE = 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 [SITE = C99.X] OR [OPCODE2 OR OPCODE2B = 99] OR [PRESENT = 99]

QPI 3: Multi-Disciplinary Team (MDT) Meeting

QPI Title:	Patients 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 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 NOT '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 C18.2 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 NOT ([OPCODE2 <> H20.1 OR H20.2 OR H20.3 OR H20.4 OR H20.5 OR H20.7 OR H20.8 OR H23.1 OR H23.2 OR H23.3 OR H23.4 OR H23.7 OR H23.8 OR H26.2 OR H26.3 OR H26.4 OR H26.8] AND [OPCODE2B = 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 C18.2 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 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9] 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:	For 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 chemoradiotherapy or radiotherapy; and patients who undergo Transanal Endoscopic Microsurgery (TEM) or Transanal Resection of Tumour (TART)). 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 C18.2 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 H10.4 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 H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9] AND [OPINTENT = 1] AND NOT ([SITE = C20.9] AND [NEOONC = 2 OR 3]) AND [SURGAPPR \neq (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] NB: Not recorded for SITE excluded from denominator and identified in not recorded for denominator section
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 Therapy

QPI Title:	Patients with locally advanced rectal cancer should receive neo-adjuvant therapy 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 neo-adjuvant therapy, designed to facilitate a margin-negative resection, defined as:</p> <ul style="list-style-type: none"> (i) Long course chemoradiotherapy (ii) Long course radiotherapy (iii) Short course radiotherapy with long course intent (delay to surgery[*]); or (iv) Neo-adjuvant chemotherapy.
Numerator:	<p>Number of patients with rectal cancer with a threatened or involved CRM on preoperative MRI undergoing surgery who receive neo-adjuvant therapy</p> <p>Neo-Adjuvant Oncology Treatment Type (Colorectal Cancer) coded as Long Course Radiotherapy with Chemotherapy (Chemoradiotherapy) or Long Course Radiotherapy Only, or Chemotherapy, or Short Course Radiotherapy with Long Course Intent (delay to surgery) where Date of Final Definitive (or Only) Surgery {Colorectal Cancer} is ≥ 42 days after Date Neo-Adjuvant/Oncology Treatment Completed {Colorectal Cancer}</p> <p>[NEOONC = 2 OR 3 OR 4] OR ([NEOONC = 1] AND [FINSURGDATE] – [NEOAJCOM] ≥ 42 days)</p>
Denominator:	<p>All patients with rectal cancer with a threatened or involved CRM on preoperative MRI undergoing surgery. (Excludes patients who refused neo-adjuvant therapy, patients in whom neo-adjuvant therapy 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 treatment or treatment contraindicated for patient; 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 H10.4 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 H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9] AND [NEOONC <> 83, 84, 85, 86, 87 OR 88] 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] OR [FINSURGDATE = 09/09/0909] OR [NEOAJCOM = 09/09/0909]</p>

^{*} Delay to surgery is defined as planned surgery performed a minimum of 6 weeks after completion of neo-adjuvant therapy

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	<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 [CMARGINPREDICT = 99] OR [OPCODE2 OR OPCODE 2B = 99]</p>

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 immediate / early**surgery following neo-adjuvant short course radiotherapy; and (ii) Surgery following neo-adjuvant chemotherapy, long course chemoradiotherapy, long course radiotherapy, or short course radiotherapy with long course intent (delay to surgery*).
Numerator (i):	<p>Number of patients with rectal cancer who undergo elective primary surgical resection or immediate/early surgical resection following neo-adjuvant short course radiotherapy 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 immediate / early surgical resection following neo-adjuvant short course radiotherapy. (Excludes Patients who undergo Transanal Endoscopic Microsurgery (TEM) or Transanal Resection of Tumour (TART).)</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 within 42 days 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 H10.4 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 H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9] AND [PRESENT = 1] AND (([FIRSTTREATMODE = 1] AND [NEOONC <> 1 OR 2 OR 3 OR 4]) OR ([NEOONC = 1] AND [FINSURGDATE - NEOADJCOM >0 and < 42 days])) AND [SURGAPPR <> 3 OR 4].</p>
Numerator (ii):	<p>Number of patients with rectal cancer who undergo elective surgical resection following neo-adjuvant chemotherapy, long course chemoradiotherapy, long course radiotherapy or short course radiotherapy with long course intent (delay to surgery) 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 (ii):	<p>All patients with rectal cancer who undergo elective surgical resection following neo-adjuvant chemotherapy, long course chemoradiotherapy, long course radiotherapy or short course radiotherapy with long course intent (delay to surgery). (Excludes patients who undergo Transanal Endoscopic Microsurgery (TEM) and patients undergoing Transanal Resection of Tumour (TART)).</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 Chemotherapy or Long Course Radiotherapy with Chemotherapy (Chemoradiotherapy) or Long Course Radiotherapy only Or Short Course Radiotherapy where Date of Final Definitive (or Only) Surgery {Colorectal Cancer} is ≥ 42 days after Date Neo-Adjuvant/Oncology Treatment Completed {Colorectal Cancer}; and Surgical Approach not coded as Transanal Endoscopic Microsurgery (TEM) or Transanal Resection of Tumour (TART)</p> <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 H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14] AND [PRESENT = 1] AND [NEOONC = 2 OR 3 OR 4] OR ([NEOONC = 1] AND [FINSURGDATE - NEOADJCOM] \geq 42 days) AND [SURGAPPR <> (3 OR 4)] .</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>(i) and (ii) [CIRCMARGIN=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) [SURGAPPR=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>(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]</p> <p>(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]</p>

** Immediate / early surgery is defined as surgery performed less than 6 weeks after completion of neo-adjuvant therapy.

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. Re-operation coded as Yes [REOPER = 1]
Denominator:	All patients with colorectal cancer who undergo surgical resection. (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; [SITE = C18.0 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 H10.4 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 H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9]
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 [REOPER = 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]

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; and (ii) Rectal anastomosis (including anterior resection with total mesorectal excision (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 C18.2 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].</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 C18.2 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 OR H29.1 OR H29.3 OR H41.1]</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>[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):	Number of patients with colorectal cancer who undergo emergency or elective surgical resection who die within 30 days of surgery. Date of death minus Date of Final Definitive Surgery is less than or equal to 30 days [DOD – FINSURGDATE ≤ 30] AND [DOD <> 10/10/1010]
Numerator (ii):	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]
Denominator (i) and (ii):	All patients with colorectal cancer who undergo emergency or elective surgical resection. (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 Emergency or Elective (presented separately) [SITE = C18.0 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 H10.4 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 H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9] <u>Emergency</u> AND [PRESENT = 2] <u>Elective</u> 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 [DOD = 09/09/0909] OR [FINSURGDATE = 09/09/0909].
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	<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] AND [OPCODE2 OR OPCODE2B = 99] OR [PRESENT=99]</p>

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 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; and Date Primary/Palliative/Adjuvant Oncology Treatment Started {Colorectal Cancer} minus Date of Final Definitive (or only) surgery {Colorectal Cancer} is within 84 days.</p> <p>[ADJONC = 2] AND [ADJONCDATE - FINSURGDATE ≥0 and ≤ 84 days]</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 and patients who undergo neo-adjuvant treatment).</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; and Neo-adjuvant Oncology Treatment Type {Colorectal Cancer} not coded as Short Course Radiotherapy, Long Course Radiotherapy with Chemotherapy (Chemoradiotherapy), Long Course Radiotherapy only or Chemotherapy.</p> <p>[DIAGDATE – DOB ≥ 50 years] AND [DIAGDATE – DOB ≤ 74 years] AND [SITE = C18.0 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 H10.4 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 H41.1 OR H41.2 OR H41.3 OR H41.4 OR X14.1 OR X14.2 OR X14.3 OR X14.8 OR X14.9] AND [ADJONC<>84] AND [NEOONC <> 1 OR 2 OR 3 OR 4]</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]) OR ([DUKES = 2] AND [FINALT = T3] AND [FINALN = N0] AND [FINALM = M0] AND</p>

[†] High risk Dukes B colorectal cancer is defined as patients with (pT4a or pT4b disease) with / without extramural venous invasion, or pT3 pN0 M0 with extramural venous invasion.

[‡] Adjuvant chemotherapy in this instance is defined as chemotherapy treatment which commences within 12 weeks of surgical resection.

	[EXTRA = 1])
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] OR [ADJONCDATE = 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>[ADJONC = 99] OR [NEOONC = 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] OR [FINALN = 99] OR [FINALM = 99] OR [EXTRA = 99]</p>

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

QPI Title:	Mortality after chemotherapy or radiotherapy treatment for colorectal cancer.
Description:	Proportion of patients with colorectal cancer who die within 30 or 90 days of chemotherapy or radiotherapy treatment..
Specification (i) 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>
	<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 (i):	All patients with colorectal cancer who undergo neo-adjuvant chemoradiotherapy, radiotherapy or adjuvant chemotherapy with curative intent. (No exclusions).

	<p>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 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 C18.2 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 C18.2 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 C18.2 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>
<p>Specification (ii)</p> <p>Numerator (ii):</p>	<p>Number of patients with colorectal cancer who undergo palliative chemotherapy who die within 30 days of treatment.</p> <p>Date of death minus Date Adjuvant/Primary Oncology Treatment Completed {Colorectal Cancer} is less than or equal to 30 days</p> <p><u>Palliative Chemotherapy</u></p> <p>[DOD – ADJONCOM ≤ 30] AND [DOD <> 10/10/1010]</p>

Denominator (ii):	<p>All patients with colorectal cancer who undergo palliative chemotherapy. (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 (presented separately) Adjuvant/Primary/Palliative Oncology Treatment Type {Colorectal Cancer} coded as Palliative Chemotherapy</p> <p><u>Palliative Chemotherapy</u> [SITE = C18.0 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 = 7]</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><u>Numerator (i)</u> <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><u>Numerator (ii)</u> <u>Palliative Chemotherapy</u> [DOD = 09/09/0909] OR [ADJONCOM = 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	<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>Denominator (i)</u> <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></p>

[SITE = C99.X] OR [ADJONC = 99]

Denominator (ii)

Palliative Chemotherapy

[SITE = 99.X] OR [ADJONC = 99]