

Demographic Data

	N				
	Procare	%procare	p25	median	p75
Number of Patients registered	2439		10	25.5	46.5
Missing National Social Security Number	195	8	0	0	9
SEX					
-> Number of male patients	1489	61	52.5	61	69
-> Number of female patients	948	39	31	39	47.5
-> Missing sex	2	0	0	0	0
AGE					
-> Mean age	67		66	68	69
-> Median age	68		67	68.5	71
-> Missing date of birth	5	0	0	0	0

Pretreatment diagnosis, staging and function

	N	%procare	p25	median	p75
Missing date of first consultation/hospitalisation	302	12.4	0	3.5	9.5
Missing biopsy date	1593	67.7	44.4	82.9	100
LEVEL OF TUMOUR					
QCI: Documented distance	2260	92.7	92.2	96.6	100
-> High (>10cm)	400	17.7	7.8	14.3	26.7
-> Mid (> 5 - <= 10cm)	868	38.4	30	40	50
-> Low (<= 5cm)	991	43.9	31.3	41.8	50.8
Missing lower limit	179	7.3	0	3.5	7.8
QCI: Complete large bowel imaging	2125	98.2	100	100	100
USE OF IMAGING					
-> Use of TRUS (any stage)	1033	42.4	18.5	38.2	62.5
-> Use of CT pelvis (any stage)	1399	57.4	32	63.1	86.6
-> Use of MRI (any stage)	923	37.8	5.1	27.2	50
-> Use of TRUS in cT1/cT2	217	45.3	0	38	78.6
-> Use of MRI in cT3/cT4	724	43.5	5.6	32.6	56.3
QCI: Locoregional staging by TRUS + CT pelvis and/or MRI pelvis	755	31	9.6	23.4	40.3
QCI: cCRM reported in cStage II-III if radical resection	383	27.3	0	7.7	20
TUMOUR CLINICAL STAGE					
-> cStage0	10	0.5	0	0	0
-> cStageI	291	13.6	4.5	10.3	22.2
-> cStageII	390	18.3	12.2	20	26.9
-> cStageIII	1076	50.4	36.4	47.2	60
-> cStageIV	305	14.3	5.6	12.5	20
-> cStageX	61	2.9	0	0	2.9
-> cStage missing	306	12.5	3.8	7.8	21.7
QCI: CEA before any treatment	2015	82.6	74.2	88.8	97.3

Time to first treatment

	N Procare	%procare	p25	median	p75
Global	25		20	27	33
First treatment surgery	21		15	23.3	29.8
First treatment (C)RT	26		21	27	39
First treatment palliative C(R)T	21.5		15	22	40

Neoadjuvant treatment

	N	%procare	p25	median	p75
QCI: Short course RT for cStage II-III	118	9.9	0	0	7.1
QCI: Long course (C)RT for cStage II-III	758	63.4	50	64.3	83.3
QCI: Long course (C)RT without interruption	744	98.2	100	100	100
NEOADJUVANT TREATMENT FOR cSTAGE II-III					
-> For high RC	80	39.8	0	33.3	66.7
-> For mid RC	421	78.1	60	80.5	100
-> For low RC	551	86.2	71.4	92.6	100
Long course (C)RT if cCRM <= 2mm	164	69.8	0	87.5	100
Neoadjuvant treatment in cStageI	49	19	0	0	25
Missing date first irradiation	194	13.7	0	7	24.3
Missing date last irradiation	209	14.8	0	8.2	29.2
Missing number of fractions	187	13.2	0	7.4	23.6
Missing total dose	255	18	3.5	11.5	38.5
Missing radiation compliance	206	14.5	0	6.1	22.9
Missing concomitant chemotherapy	166	11.7	0	5.1	12.3
QCI: Surgery 6-8 weeks after long course (C)RT for cStage II-III	402	61.3	40	50	72.7
QCI: Surgery 4-12 weeks after long course (C)RT for cStage II-III	639	97.4	100	100	100

Surgery

	N	%procare	p25	median	p75
PLANNED TYPE OF SURGERY					
-> No resection (Palliative)	19	0.9	0	0	0
-> Hartmann	55	2.7	0	0	3.7
-> APER	429	21.1	11.1	19.5	33.3
-> SSO	1468	72.3	58.5	70.7	82.7
-> Local excision/TEM	63	3.1	0	0	3.6
-> Missing data on planned surgery	405	17.7	6.2	12.5	22.2
MODE OF SURGERY					
-> Elective/ scheduled	2163	98.1	96.3	100	100
-> Urgent: emergency	43	1.9	0	0	3.7
-> Missing data on mode of surgery	76	3.3	0	0	1.3
APPROACH EXPLORATION IF RADICAL					
-> Exploration by Laparotomy	1472	69.8	53.5	86.2	100
-> Exploration by Laparoscopy	584	27.7	0	10	36
-> Exploration by converted Laparoscopy	54	2.6	0	0	2.7
-> Missing data on approach for exploration	35	1.6	0	0	0
APPROACH RESECTION IF RADICAL					
-> Resection by Laparotomy	1526	71.5	59.1	90.2	100
-> Resection by Laparoscopy	531	24.9	0	7.1	33.3
-> Resection by converted Laparoscopy	77	3.6	0	0	2.6
-> Missing data on approach for radical resection	11	0.5	0	0	0
APPROACH RECONSTRUCTION IF RADICAL					
-> Reconstruction by Laparotomy	1538	72.8	53.5	89.6	100
-> Reconstruction by Laparoscopy	523	24.7	0	9	33.3
-> Reconstruction by converted Laparoscopy	53	2.5	0	0	2.9
-> Missing data on approach for reconstruction	31	1.4	0	0	0.9

	N	%procare	p25	median	p75
QCI: STATUS AFTER RADICAL RESECTION					
-> R0	1456	75.7	68.8	75.9	83.3
-> R1	200	10.4	0	8.7	15
-> R2	267	13.9	6.5	12	20.5
-> Missing data on R status	222	10.3	0	5.3	12.1
QCI: Rectal perforation	164	7.7	0	5.9	11.1
Missing data on perforation of rectum	34	1.6	0	0	0
TECHNIQUE OF RESECTION					
-> PME	333	15.8	0	12.5	25
-> TME	1758	83.4	75	87.5	100
-> Conventional	17	0.8	0	0	0
-> Missing technique of resection	37	1.7	0	0	1.3
TYPE OF RESECTION AND RECONSTRUCTION					
-> Local excision/TEM (Global)	28	1.3	0	0	0
--->>> For cT1N0M0	9	16.1	0	0	0
--->>> For cT2N0M0	3	1.4	0	0	0
-> QCI: APER + Hartmann (global)	470	22.2	14.3	25	36
--->>> For high RC	16	4.1	0	0	0
--->>> For mid RC	53	6.3	0	0	11.8
--->>> For low RC	401	42	33.3	50	69.2
-> SSO (Global)	1602	75.8	63.6	75	85.2
--->>> High anterior resection + CRA	50	2.4	0	0	3.2
--->>> Low anterior resection + CRA	404	19.1	1.9	16.7	33.3
--->>> Restorative rectum resection (Global)	1148	54.3	33.3	45.8	64.9
----->>>> RRR + straight CAA	407	19.3	4.2	14.7	33.3
----->>>> RRR + coloplasty	42	2	0	0	2
----->>>> RRR + pouch	464	21.9	0	5.7	24
----->>>> RRR + side-to-end CAA	110	5.2	0	0	4
----->>>> RRR + other	125	5.9	0	0	5.9
-> Other types of resection	11	0.5	0	0	0
-> Missing type of resection and reconstruction	145	6.6	0	0	6.6
DISTAL ANASTOMOSIS TECHNIQUE IF SSO FOR LOW RC					

	N Procure	%procure	p25	median	p75
-> Stapled	295	63.2	58.6	85.7	100
-> Manual	172	36.8	0	14.3	41.5
-> Missing data on technique of anastomosis	21	4.3	0	0	0
Derivate Stoma if PME + SSO + Reconstruction	36	11.7	0	0	16.7
Derivate Stoma if TME + SSO + Reconstruction	708	61.7	43.4	66.7	91.3
-> Missing data on stoma if TME + SSO + recon.	0	0	0	0	0
QCI: Major leakagage after PME + SSO + reconstruction	32	6.7	0	0	10
QCI: Major leakagage after TME + SSO + reconstruction	86	7.5	0	3.8	10.5
-> With derivate Stoma	37	5.3	0	0	8.6
-> Without derivate Stoma	49	11.1	0	1.8	18.4
Derivative stoma 1 year after SSO	12	20.7	26.8	41.7	100
QCI: In hospital mortality if radical resection	48	2.3	0	0	3.8
-> ASA 1	614	31.7	8.3	31.8	52.4
-> ASA 2	991	51.2	31.4	45.5	67.2
-> ASA 3	410	21.2	5	17.6	28.9
-> ASA > 3	33	1.7	0	0	1.3
-> Missing data on ASA	236	11	0	2.8	13.2
Median length of hospital stay (days)	11		10	12	13.5
Missing date of discharge	72	3.4	0	0	4.8

Pathology

	N	%procare	p25	median	p75
QCI: Use of report sheet (since 1/2007)	1205	90.9	87.5	97.3	100
QCI: REPORT ON QUALITY IF TME					
-> Report on quality if TME (since 1/2007)	623	59.2	26.2	47.3	80
-> TME severely irregular	68	10.9	0	0	11.1
-> Missing data on TME quality	430	40.8	20	52.8	73.9
QCI: (y)pCRM reported (if radical resection)	1431	71.4	57.1	74	85.1
QCI: (y)pCRM POSITIVITY IF RADICAL RESECTION					
-> Global	238	16.6	4	14.3	25
-> For high RC	41	18.2	0	0	37.5
-> For mid RC	72	13.5	0	9.1	20
-> For low RC	118	18.8	0	14.3	27.3
-> Missing (y)pCRM	714	33.3	20	31.6	47.4
QCI: Distal margin involvement reported (after SSO + Hartmann for low RC)	1527	95.3	92.9	100	100
(y)p Distal margin involved (after SSO + Hartmann for low RC)	11	2.4	0	0	0
-> Missing data on distal margin involvement (after SSO + Hartmann for low RC)	184	10.8	0	4.8	17.4
MEAN (CM) DISTAL TUMOUR-FREE MARGIN AT SSO OR HARTMANN					
-> For high RC	4.7		3.7	4.3	5.6
-> For mid RC	3.3		2.4	3	3.8
-> For low RC	2.1		1.5	1.8	2.3
-> Missing data on length of distal margin	297	17.4	5	14.1	25.8
(y)pT CATEGORIES IF RADICAL					
ypT0	167	8.4	0	5.5	10.8
ypTis	17	0.9	0	0	0
(y)pT1	167	8.4	0	5.9	11.7
(y)pT2	480	24.3	16	22.6	33.3
(y)pT3	1001	50.6	37.5	50.6	61.3
(y)pT4	146	7.4	0	5.8	12.5

	N Procure	%procure	p25	median	p75
Missing data on (y)pT	163	7.6	0	1.3	8.3
(y)pN CATEGORIES IF RADICAL					
(y)pN0	1242	63.7	53.8	62.7	71.4
(y)pN+	708	36.3	28.6	37.4	46.2
Missing data on (y)pN	179	8.3	0	2.8	9.5
QCI: MEDIAN NUMBER OF NODES EXAMINED					
-> No or short course neoadj RT	13		10.5	13	16
-> Long course neoadj RT	10		7	10	12
-> Course type missing	9		6.5	9	13
QCI: Regression grade (Dworak) reported (after long course)	675	70.8	34.5	74.6	93.9
(y)p STAGE IF RADICAL					
-> ypStage0	148	7.6	0	3.4	7.7
-> (y)pStageI	440	22.5	14.7	22.1	28.6
-> (y)pStageII	447	22.8	15.6	22.1	29.7
-> (y)pStageIII	467	23.9	12.5	23.2	30
-> (y)pStageIV	271	13.8	6.9	11.9	18.8
-> (y)pStageX	184	9.4	0	5.3	11.4
-> Missing (y)pStage	188	8.8	0	3.4	10.3

Adjuvant treatment

	N Procare	%procare	p25	median	p75
Data adj chemo for (y)pStage III, R0 known	47		0	0	1
QCI: Adjuvant chemo for (y)pStage III, R0	46	97.9	100	100	100
Data adj R(C)T for pStage II-III, R0 known	7		0	0	0
QCI: Adjuvant R(C)T for pStage II-III, R0	7	100	100	100	100
Data adj chemo for (y)pStage II-III, R0 known	71		0	0	1
QCI: Adj. chemo for (y)pStage II-III, R0, started within 3 mo.	65	91.5	100	100	100
Data type adj chemo for (y)pStage II-III, R0 known	71		0	0	1
QCI: 5-FU based adj. (R)CT for (y)pStage II-III, R0	70	98.6	100	100	100

Follow-up

	N Procare	%procare	p25	median	p75
QCI: Regular follow-up (if diagnosis before 7/2007)	51	5.2	0	0	0
QCI: Reported late complications of R(C)T grade 4	6	5.2	0	0	0

Oncological Outcome

	N Procare	%procare	p25	median	p75
Local recurrence - 1 year	5	1.8	0	0	0
Local recurrence - 2 year	3	3.2	0	0	0
Disease-free survival - 1 year	262	95.6	100	100	100
Disease-free survival - 2 year	90	95.7	100	100	100