

Rectal Cancer Radiotherapy Decision tree MALTHUS : Updated March 2013

Stage I ECRIC 25%	T1-2 N0 M0	Surgery ^{11,12}	No radiotherapy
Stage II ECRIC 25%	T3 N0 M0- IIA	Resectable CRM > 1 mm Surgery 50%	33% No radiotherapy [RT] 66% Radiotherapy, of which 50% Pre operative Short course RT[SCRT] 50% Adjuvant chemo-radiotherapy [CRT] 45-50.4 Gy/25-28# [+ve circumferential margin] Defined as ≤1 mm tumour from surgical margin.
		Unresectable >5 mm extension [3C]or CRM ≤ 1 mm 50%	Pre-operative short course Rt ^{1,2,4,7,8,9,11} 25 Gy/5# in 1/52 15% Est Dr CBW or long course Pre-operative long course chemo-radiotherapy CRT ^{3,6,9} 45-50.4 Gy/25-28# or Rt alone 85% Est Dr CBW
	T4a N0 M0, T4b N0 M0 Stage IIB + C	95% preoperative treatment of which 85% Pre-operative CRT ^{3,6,8,9} 50.4 Gy/28# over 6/52 15% SCRT [if unable to have chemo] 25 Gy/5# over 1/52 ^{1,2,4,7,9,13} or pre-op RT 45-50.4 Gy 25/28# ⁹ 0% Est Dr CBW 5% Surgery [if upstaged by histology etc not received pre-operative [pre-op] RT]	Surgery
Stage III ECRIC 31%	T1-2 N1 M0 [1-3 nodes +ve T1 N2a M0, T3-4a N1 M0, T1-4 N2 M0 >4 nodes	50% preoperative treatment	Surgery
		85% Pre-operative CRT ^{3,6,9} 50.4 Gy/28# over 6/52 15% Est Dr CBW Pre-operative SCRT 25Gy/5# ^{1,2,4,7,9,13} or 0% Est Dr CBW 45-50.4 Gy 25/28# ⁹ 50% primary surgery Of which 5% adjuvant [if upstaged by histology etc]	

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Stage IV ECRIC 31%	IV A Any T Any N M1a [metastasis confined to one organ/site] 20%	Radical treatment to primary 70%	Pre-operative CRT 3,6,9, 50.4 Gy/28# 85% Pre-operative SCRT 25Gy/5# 15%
		No radical treatment to primary 30%	Palliative Radiotherapy 20% 20gy 5#, 6-8Gy single # No Radiotherapy 80%
	Stage IVB Any T Any N M1b [metastasis in >one organ/site or peritoneum] 80%	Locoregional treatment 30%	Radiotherapy 20Gy 5#, 30Gy 10#, 8Gy single #
		No locoregional treatment 70%	No radiotherapy. Chemo or BSC

Clinical estimates are in Red