

**MRI Rectal Cancer Restaging Template**  
**SAR Rectal Cancer DFP 2017**

**CLINICAL INFORMATION:** Rectal cancer restaging

**PRIOR TREATMENT:** *(pick list)*

[Post-induction/Post consolidation/Post CRT/Post Surgical/Surveillance]

**TECHNIQUE:** [Free text]

**COMPARISON:** [Free text]

**FINDINGS:**

**1. TREATED TUMOR/TUMOR BED CHARACTERISTICS:**

- The primary tumor and extramural disease shows: *(pick list)*
  - [residual tumor/mucin with no fibrosis present]
  - [residual tumor/mucin and scar present]
  - [dense low signal intensity fibrotic scar, with no or minimal intermediate to high T2 signal]
  - [No wall thickening or mass/mucin or scar seen]
- Distance of inferior margin of treated tumor/treated area to the anal verge: [] cm
- Distance of inferior margin of treated tumor to the top of sphincter complex/anorectal junction: [] cm
- Relationship to anterior peritoneal reflection: *(pick list)*
  - [Above] [Straddles] [Below]
- Craniocaudal length: [] cm  
Previous craniocaudal length: [] cm
- Maximal width: [] cm  
Previous thickness: [] cm
- Extramural depth of invasion (include both tumor and fibrosis): [] mm (location)  
Previous EMD of invasion: []

**yMR TUMOR T CATEGORY:** *(pick list)*

[T0/T1-2/T3a-b/T3c/T3d/T4a/T4b]

T0 (no tumor visualized)  
T1/2 (tumor confined to rectal wall)  
T3a-b (tumor penetrates ≤ 5 mm beyond muscularis propria)  
T3c (tumor penetrates > 5-15 mm beyond muscularis propria)  
T3d (tumor penetrates > 15 mm beyond muscularis propria)  
T4a (tumor penetrates to or through surface of anterior peritoneal reflection)  
T4b\* (tumor invades or adherent to adjacent organs or structures)

\* Structures with possible invasion: **(if applicable)**

- >GU: none Free text (Describe abutment versus invasion of: bladder, left ureter, right ureter, cervix, uterus, vagina, prostate, seminal vesicle, urethra)
- > Pelvic sidewall: none Free text (Describe abutment versus invasion of: obturator internus, piriformis, ischiococcygeus)
- > Pelvic floor: none Free text (Describe abutment versus invasion of: pubococcygeus, ileococcygeus, puborectalis, levator plate)
- > Sacrum: none Free text (Describe any sacral osseous involvement)
- > Vessels: none Free text (Describe abutment versus invasion of: left internal iliac vessels, right internal iliac vessels, left external iliac vessels, right external iliac vessels)
- > Nerves: none Free text (Describe abutment versus invasion of: lumbosacral nerve roots)

FUNCTIONAL SEQUENCES

DWI: **(pick list)**

[restricted diffusion in tumor or tumor bed is present/restricted diffusion in tumor or tumor bed is absent/NA]

DCE: **(optional) (pick list)**

*[early perfusion in tumor or tumor bed is present/early perfusion in tumor or tumor bed is absent/NA]*

Est tumor volume reduction: **(optional) (pick list)**

*[≥75% tumor volume reduction /<75% tumor volume reduction]*

FOR LOW RECTAL TUMORS ONLY:

Involvement of anal sphincter complex: [present/absent]. IF present **(pick list)**

[internal anal sphincter involved]

[intersphincteric plane involved]

[external anal sphincter involved]

[tumor extends beyond external anal sphincter]

**2. CIRCUMFERENTIAL RESECTION MARGIN: [For T3 Tumor Only]**

>Minimal distance of tumor to MRF or anticipated CRM (include tumor and fibrosis): [ ] mm (location)

OR

Not applicable (tumor – mostly at/above the anterior peritoneal reflection)

> Separate tumor deposit, suspicious lymph node or EMVI threatening (< 2 mm) or invading (<1 mm) the MRF): **(pick list)**

[yes/no] [If yes, location and distance]

**3. MESORECTAL LYMPH NODES [Superior Rectal & Mesorectal Only] AND TUMOR DEPOSITS: (pick list)**

[N0 (no visible lymph nodes/deposits) ≥ 5 mm]

OR

[N+ (lymph nodes ≥ 5 mm)]

**[OPTIONAL]** Largest lymph node short axis diameter: [ ] mm

**[OPTIONAL]** Total number of lymph nodes: \_\_\_\_ Total number of suspicious nodes: \_\_\_\_

**[OPTIONAL]** Location of suspicious regional lymph nodes:

**[OPTIONAL]** Location of highest suspicious lymph node:

**4. EXTRA-MESORECTAL LYMPH NODES** (AJCC 7<sup>th</sup> ed: Locoregional lymph nodes = internal iliac, obturator. Nonregional (M1) lymph nodes = external iliac, common iliac, retroperitoneal, inguinal)

Suspicious extra-mesorectal/ pelvic sidewall nodes: [present/absent]

If present: Location: **[free text, describe/locate all suspicious]**

The largest suspicious extra extra-mesorectal lymph node measures [] compared to [] on the prior study. **[optional free text: signal change]**

**5. EXTRAMURAL VENOUS INVASION (EMVI): (pick lists)**

[present] [absent] [equivocal].

If present: **(free text, location)**

If present: **(pick list)**

[fibrosis predominates in vein/tumor signal predominates in vein]

**6. OTHER:** **[free text:** bones, peritoneal mets, other incidental findings]

**IMPRESSION:**

>Since [date of prior], the primary tumor and extramural disease shows: **(pick list)**

[No or minimal response]

[partial response]

[near complete response]

[no identifiable residual tumor]

>Post treatment category: ymrT **(pick list T0-T4b)**, ymrN **(pick list N0/N+/Nx)**

>MRF: [clear: tumor margin > 2mm], [threatened: tumor within 2 mm], [involved: tumor within 1 mm]

>Sphincter involvement: [present/absent]

