Fig. 2

From: MRI to guide clinical management of rectal cancer: updated consensus recommendations from the European Society of Gastrointestinal and Abdominal Radiology (ESGAR)—PART I primary staging

Structured MRI Reporting Template
- Primary Staging -

Local tumour status

- Morphology: Composition: ☐ Solid ☐ Mucinous ☐ Mixed
  Shape: ☐ Polyp ☐ Fully annular ☐ Partly annular: …. to …. o'clock
- Location: Distance from the anorectal junction to the lower tumour border: …. cm
  (Distance from the anal verge to the lower tumour border: …. cm)
  Relation of tumour to anterior peritoneal reflection: ☐ Below ☐ Straddles ☐ Above
  Relation of lower tumour border to sigmoid take off (STO): ☐ At/below (rectum) ☐ Above (sigmoid)
- Size: Tumour length: …. cm
- cT-category:
  ☐ cT1-2
  ☐ cT3ab (≤5 mm extramural growth)
  ☐ cT3cd (>5 mm extramural growth)
  ☐ cT4a (invading peritoneum or peritoneal reflection)
  ☐ cT4b, based on invasion of: ……
  (pelvic organs, pelvic floor/sidewall/external sphincter/other muscles, vessels, nerves, bone, anatomic compartment outside mesorectum, other large/small bowel loop)
- Extramural Vascular Invasion (EMVI): ☐ No ☐ Yes
- Sphincter invasion*: (indicate involved layer(s)) ☐ No ☐ Intersphincteric space ☐ Internal sphincter ☐ External sphincter (=cT4b)

* If present, provide description of further details (side/location, craniocaudal extent of invasion)

Mesorectal fascia (MRF) involvement

- Involvement of MRF (≤ 1 mm margin): ☐ No
  ☐ Yes → ☐ by primary tumour
  → ☐ by EMVI
  → ☐ by irregular lymph node/tumour deposit
- Location of MRF involvement (if applicable): … o'clock

Lymph nodes and tumour deposits

- Suspicious mesorectal lymph nodes: …
  - size (short axis) ≥ 9 mm
  - size 5-9 mm AND ≥2 morphologic criteria*
  - size <5 mm AND 3 morphologic criteria*
  - mucinous

  ☐ No ☐ Yes: … (number, size)
- Suspicious regional lateral lymph nodes:
  - size ≥7 mm (or 5-7 mm with morphologic criteria*)
  - mucinous

  ☐ No ☐ Obturator: … (number, size, side) ☐ Internal iliac: …(number, size, side)
- Tumour deposits: ☐ No ☐ Yes: … (number, size)

Estimated cN-category#
☐ cN0
☐ Possibly cN+
☐ cN+

- Suspicious non-regional (cM+) lymph nodes: ☐ No ☐ External iliac: … (number, size, side) ☐ Common iliac: … (number, size, side) ☐ Inguinal: … (number, size, side)
  Note, inguinal nodes are regional/cN+ if tumour extends below dentate line

* Morphologically suspicious criteria: round shape, irregular border, heterogeneous signal
# cN-category should be estimated taking other risk factors (cT-category, EMVI, number of suspicious nodes) into account

Recommended structured reporting template for primary staging

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