

Supplement 1

Ultrasound Interpretation Template for the Initial Measurement of Defecatory Patient Reported Pelvic Floor Complaints (Ultrasound - IMPACT)

TECHNIQUE:

Endoanal/transperineal/endovaginal ultrasound was performed with the patient fully awake and [lying in the left lateral decubitus/dorsal lithotomy position/other position]. Rectal gel [was/was not] inserted. A [2D /3D] [transducer specifications here including frequency] transducer was [inserted into the anus up to 6 cm from anal verge/placed at the perineum/inserted into the vaginal canal] and 2D and 3D cine loops were obtained [add additional specific details about what images were acquired if needed].

Dynamic imaging of the pelvic floor was performed with cine loops acquired using a [type/frequency] transducer [in the rectum/on the perineum/in the vagina] during [strain, Valsalva and/or defecation of rectal gel/contraction of the pelvic floor.]

FINDINGS:

Anatomic Imaging:

Internal Anal Sphincter (IAS)

IAS was [intact / fragmented / scarred]. IAS measured (from the top of the PR to the bottom of the IAS): [xx] mm.

[If sphincter defect found, characterize:]

A sphincter [choose all that apply defect /scar/other, describe] was noted:

Location: [anterior /posterior/right /left]

Location of defect in relationship to puborectalis (PR): [choose all that apply:
upper 1/3 of the sphincter/ middle 1/3 of the sphincter / lower 1/3 of the
sphincter/ entire sphincter]

Size in degrees: [xx] degrees

Measured length of defect in mm: [xx mm] longitudinally.

External Anal Sphincter (EAS)

EAS was [intact / fragmented / scarred]. EAS measured (from the top of the PR to the bottom of the EAS): [xx] mm.

[If sphincter defect found, characterize]:

A sphincter [choose all that apply: defect /scar/other, describe] was noted:

Location: [anterior /posterior/right /left]

Location of defect in relationship to puborectalis (PR): [choose all that apply:
upper 1/3 of the sphincter/ middle 1/3 of the sphincter / lower 1/3 of the sphincter/
entire sphincter]

Size in degrees: [xx] degrees

Measured length of defect in mm: [xx] mm longitudinally.

Perineal Body (optional)

A finger was inserted into vagina and gentle pressure was applied at the level of the middle anal sphincter complex, just below the puborectalis. The perineal body measured [xx] mm on ultrasound.

Levator Ani Muscle Complex:

Levator muscle avulsion was [not present/ present on the left /present on the right /present bilaterally]. Levator hiatus [measured [xx] cm in the AP and [xx] cm in the left to right direction [with an area of [xx] cm²/could not be accurately measured due to muscle avulsion.]

Dynamic Ultrasound

Perineal descent:

There was [normal/abnormal] perineal descent with [Valsalva /strain /evacuation of gel], and the anorectal junction descended [xx] mm below [its resting position/specify technique-specific landmark used].

Assessment of Dyssynergia

Anorectal angle /the levator plate changed from [x] degrees at rest to [y] degrees during defecation/strain consistent with [expected widening/no significant widening/paradoxical contraction].

Rectocele:

Rectocele [was/was not] present.

[If present, Rectocele measured [x] mm AP and demonstrated [complete/incomplete] emptying.

Note: Do not grade further as mild/moderate/severe or grade 1, 2 or 3.

Rectal intussusception:

[No /Rectorectal/ rectoanal /external] intussusception of the rectum was observed.

Cul-de-sac structures

There [was/was no] [enterocele/sigmoidocele/peritoneocele] [measure size, describe level of hernia relative to the plane of minimum dimension or MLH, offer additional clinically relevant

details as to its relationship to the top 1/3 of vagina, middle 2/3 of vagina, or to level of pelvic floor].

Note: Do not grade further as mild/moderate/severe or grade 1, 2 or 3.

Vaginal Prolapse

The vaginal apex [did/ did not] prolapse below the plane of minimum dimension or MLH. [If present, report distance from MLH to vaginal apex]

IMPRESSION:

Anatomic abnormalities: [summarize from above]

Functional abnormalities: [summarize from above]