

EFFECT OF A SPECULUM BLADE ON DYNAMIC MRI EVALUATION OF PELVIC ORGAN PROLAPSE

Hypothesis / aims of study

To evaluate whether the use of a speculum blade modifies the evaluation of pelvic organ prolapse as assessed by dynamic MRI.

Study design, materials and methods

Women with POP-Q stage II or greater, who were due to undergo genital prolapse surgery, were evaluated using dynamic MRI. The procedure was repeated using the posterior blade of a standard plastic Grave's speculum to successively retract the anterior and posterior vaginal walls. Pelvic organ position, prolapsed compartments, and prolapse degree were evaluated according to the use of a speculum blade

Results

Twenty seven patients were enrolled in this pilot study. Standard POP-Q was 15% stage II, 59% stage III, and 26% stage IV prolapse.

The use of a blade evidenced hidden pelvic prolapsed compartments in 59% (n=16) of cases. For 48% of patients (n=13), the variation of the leading edge of at least one additional prolapsed compartment was diagnosed as more than 20mm. Using a speculum blade, patients were significantly more often diagnosed with POP of more than one compartment (p=0.0015).

Interpretation of results

The use of a speculum blade during dynamic MRI modifies the pelvic organ prolapse evaluation in a large proportion of patients who require prolapse surgery.

Concluding message

The results of this study point to a role for the use of a speculum blade during MRI POP evaluation.

(2 references)

References

1. Delaney S, Fernandez P, N'Guyen A, Salomon L, Carbonne B, Laissy JP, Ansquer Y. Effetc of a speculum blade on dynamic MRI evaluation of pelvic organ prolapse. Acta Obstet Gynaecol Scand 2009; In Press
2. Comiter C, Vasavada S, Barbaric Z, Gousse A, Raz S. Grading pelvic prolapse and pelvic floor relaxaxation using dynamic magnetic resonance imaging. urology 1999; 54: 454-7

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<i>Is this a clinical trial?</i>	No
<i>What were the subjects in the study?</i>	HUMAN
<i>Was this study approved by an ethics committee?</i>	Yes
<i>Specify Name of Ethics Committee</i>	Comité d'Ethique de la recherche en Gynécologie Obstétrique
<i>Was the Declaration of Helsinki followed?</i>	Yes
<i>Was informed consent obtained from the patients?</i>	Yes