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Intra-vaginal and/or intra-rectal MRI compatible pressure probe

Technology

Keywords

- Pressure sensor
- Pelvic system
- MRI compatible
- Vaginal probe
- Anal probe



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Development Status

Intravaginal and intra-rectal device for pressure measurement, validated in terms of technology and geometry (tested on animals)

Nondestructive and noninvasive characterization tool methods by inverse mechanical properties of all the pelvic cavity tissue validated.

Partnership

contact

Licensing

The invention consists in coupling the measurement of intra-vaginal or intra-rectal pressure under stress, with dynamic MRI to observe and quantify the movement induced by this solicitation.

The measurement of the couple pressure / displacement is itself a tool to characterize in vivo, indirectly, the mechanical properties of organs, ligaments and muscles involved in pelvic posing a major challenge for the understanding of pelvic pathologies and improving their diagnosis and management.



Benefits

- The vaginal and/or anal pressure sensor developed allows:
- To carry conventional examinations without imaging tool and give purely qualitative results.
 - Coupled with MRI imaging tool it can provide quantitative results
- The probe is compatible with the MRI imaging
- The invention allows improved diagnosis of pelvic disorders.
- The invention allows to consider all scenarios childbirth.

Applications

- Gynecology (prolapse ...)
 - Obstetrics (Scenarios of deliveries)
- abdominal surgery

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