ALL-IN-ONE NOVEL DIAGNOSTIC SYSTEM FOR PELVIC FLOOR DISORDERS – RESULTS FROM FIRST IN HUMAN STUDY

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A novel all-in-one anorectal diagnostic system (ARDiS) simultaneously measures rectal and anal pressures and anorectal angle during seated balloon expulsion in a private setting, potentially replacing multiple fragmented pelvic floor disorder tests.

KEY POINTS

- Current pelvic floor disorder diagnosis requires multiple tests (balloon expulsion, anorectal manometry, defecography) across multiple visits in non-private environments using non-physiologic lying positions, resulting in fragmented information that is inconvenient for patients and time-consuming for providers.
- The ARDiS system uses a disposable balloon and catheter to simultaneously measure rectal and anal pressures and anorectal angle during balloon expulsion in a physiologic seated position, with Bluetooth data transmission enabling testing in a private toilet room.
- In comparative testing against standard high-resolution manometry and balloon expulsion systems, ARDiS reliably measured pressures with values comparable to standard methods, enabled novel anorectal angle assessment, and was well tolerated with no reported side effects.
- Patients preferred the private, seated testing environment, and the authors propose that ARDiS may streamline diagnosis, improve patient compliance, and support personalized management of pelvic floor disorders in both hospital and outpatient settings.
- The study authors have financial interests in ARDiS Medical Ltd.

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