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Reimagining pelvic Support: The HPPOSS and HPVSD solutions for pelvic organ prolapse

Abstract:

Pelvic floor Dysfunction (PFD) is a highly prevalent condition affecting nearly half of parous women by the age of 80. Despite the widespread use of vaginal pessaries as a conservative treatment, limitations in current designs — including poor anatomical fit, discomfort, hygiene challenges, and material safety — lead to high discontinuation rates and suboptimal patient adherence. Addressing these concerns, the Harris Phillip Pelvic Organ Support System (HPPOSS) represents a novel intravaginal support device engineered to offer a more anatomical, user-friendly, and biocompatible alternative. The HPPOSS is a tulip-shaped, expandable pessary designed to support the anterior, posterior, and uterovaginal prolapse by cradling the cervix and reinforcing the vaginal walls. Key innovations include an internal inflatable bladder that allows user-controlled deployment; four flared, petal-like lobes embedded with microbubble surface texture to enhance upward lift; and drainage apertures to prevent fluid retention. The device also includes a retrieval loop to enable self-removal, promoting autonomy and reducing reliance on clinical intervention. Constructed from medical grade fluorosilicone or Class VI silicone, the HPPOSS addresses concerns related to microplastic exposure and long-term biocompatibility. Initial prototyping and anatomical simulations have demonstrated strong promise for clinical tolerability, ease of use, and effective pelvic support. Development is currently at the advanced prototype stage, with ongoing IP protection and plans for simulated biomechanical testing, safety validation, and early-phase clinical trials. This presentation will explore the clinical rationale, technical design, and development roadmap of the HPPOSS, inviting collaboration from clinicians and researchers in the field of pelvic floor health.

Biography

Phillip studied Chemistry and Biochemistry at the Prairie View A& M university as well as the Texas A&M university. He holds both a BSc (summa cum laude) and an MSc degree and spent a year in the Ph.D. program at Texas A&M university before going into medical school. He studied medicine at the University of the West Indies, Jamaica where he obtained both his MBBS and his Doctor of Medicine degrees (DM). In the U.K, he has been a consultant Obstetrician and Gynecologist for almost two decades. He has authored more than 10 books and is widely published in medical journals.