Reviewer’s report

Title: Study of the response of the penile corporal tissue and cavernosus muscles to micturition

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Reviewer: Hann-Chorng Kuo

Reviewer’s report:

This manuscript investigated the response of the penile corporal tissue and cavernosus muscles to micturition. The manuscript is interesting but might not have clinical significance. Micturition is a complex interaction between detrusor and urethral and pelvic floor muscles. Penile urethra acts as a conduit to pass urine outside the body. During micturition, the uroflow is determined by the detrusor contractility and the relaxation of urethral sphincter, not by the penile urethra. Although the periurethral corporal tissue and cavernosus muscles might have some associated relaxation or contraction during urine flow, these tissues add minimal effect on the uroflow.

However, this investigation still has some scientific achievement in understanding the reaction of these tissues during micturition, e.g. sinusoid relaxation and cavernous muscle contraction. Although these tissue interaction can be shown in this study, a "urethro-corporocavernosus reflex" is too early to be suggested. The authors should prove there are neuronal connection between the urethral muscles and these tissues before proposing a reflex in the conclusion.

Further, although the results showed sinusoidal relaxation and cavernous muscle changes, these changes might not be a "penile tumescence". During penile tumescence, the sinusoidal relaxation is associated with increased blood flow and increased intracorporal pressure. I wonder a penile tumescence could assist in urinary flow in micturition. Therefore, this point-of-view should be deleted from the discussions and conclusion.

What next?: Accept after minor essential revisions

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare that I have no competing interests