SUPPLEMENTARY MATERIAL

Inclusion Criteria

The subjects were required to satisfy all of the following criteria to participate in the study.

- 1. Men or women ages 20 to 80.
- 2. Results of urodynamics performed within one year before screening. Diagnosis of neurogenic lower urinary tract dysfunction with stable neurological disease for more than 6 months before screening including:
 - 1) Central nervous system diseases
 - -Brain diseases (cerebrovascular accident, Parkinson, etc.)
 - -Spinal cord diseases (spondylosis, spinal cord injury, ossification of posterior longitudinal ligament, etc.)
- 2) Peripheral nervous system disease
 - -Diabetic neuropathy, after rectal cancer surgery, after uterine cancer surgery, etc.
- 3. Symptoms of urination (both were required):
 - 1) IPSS (International Prostatic Symptom Score) ≥ 12 and QoL (quality of life) ≥ 3
 - 2) Qmax (maximum flow rate) < 15 mL/sec (with voiding volume ≥ 120 mL)
- 4. Written consent to participate in this study (women needed be sterilized or menopausal, or if there was a possibility of pregnancy, agree to have effective contraception during the duration of the trial).
- 5. Willing to follow the schedule and voluntarily complete research questionnaires and other research-related activities.

Exclusion Criteria

The following subjects were ineligible to participate in the study.

- 1. Bladder outlet obstruction due to benign prostatic hyperplasia in men over 50 years of age (Prostate volume exceeding 30 g in rectal test or 30 mL in transrectal ultrasound, and bladder outlet obstruction index ≥ 40 in urodynamics results within 1 year before screening,).
- For women, if they have dysuria due to severe pelvic organ prolapse (Pelvic Organ Prolapse International Continence Society stage, Pelvic Organ Prolapse Quantification stage ≥ 2).
- For women, a history of stress incontinence, or a history of previous mid-urethral sling surgery.
- 4. For men over 50 years of age with clinical evidence of prostate cancer (PSA \geq 10) (If $4 \leq$ PSA < 10, result of biopsy should

- be negative within the last 1 year.).
- 5. If a history of anatomical bladder outlet obstruction such as bladder neck constriction, urethral stricture.
- 6. If a history of bladder, urethra, or prostate surgery.
- 7. If having a urethral catheter.
- 8. If performing clean intermittent catheterization.
- 9. If you have severe urge incontinence.
- 10. If a history of urological cancer (bladder, prostate, urethral cancer) or who is currently receiving chemotherapy.
- 11. If urine nitrite results are positive.
- 12. If you currently have severe cardiovascular disease or severe cerebrovascular disease.
- 13. If you have orthostatic hypotension.
- 14. If you have liver dysfunction: serum aspartate aminotransferase, alanine aminotransferase is more than twice the normal upper limit.
- 15. If renal impairment: serum creatinine ≥ 2.5 mg/dL.
- 16. If α -blocker or phosphodiesterase type-5 (PDE-5) inhibitor is administered within 2 weeks before screening (subjects who take α -blockers or PDE-5 inhibitors can participate in this study after 2 weeks wash-out).
- 17. If new or discontinued or changed doses of cholinergic antagonist, cholinergic agonist, SSRI (selective serotonin reuptake inhibitor), TCA (tricyclic antidepressant), antidiuretic drug within 4 weeks prior to screening. (It can be taken if the dose is kept between 4 weeks before screening and end of study.).
 - Anticholinergic agents: atropine, scopolamine, homatropine, cyclopentolate, tropicamide, dicyclomine, oxypencyclimine, cilidinium, propanthline, methantheline, mepenzolate, pirenzepine, telenezepine, ipratropium, hemichlolinum
 - Cholinergic agonist: acetylcholine, methacholine, carbachol, bethanechol, muscarine, pilocarpine.
 - 3) SSRI: fluoxetine, paroxetine, sertraline, trazodone
 - TCA: imipramine, amitriptyline, nortriptyline, doxepine, amoxapine
 - 5) Antidiuretic: desmopressin
- 18. If new or discontinued or changed doses of 5α -reductase inhibitor-based drugs within 12 weeks prior to screening (It can be taken if the dose is kept between 12 weeks before screening and end of study.)
 - 1) 5α-reductase inhibitors: finasteride, dutasteride
- 19. Pregnant or lactating women.
- 20. Subjects with hypersensitivity or a clinically significant hy-

- persensitivity reaction when administered similar drug to this drug.
- 21. Subjects with genetic disorders related to lactose absorption (e.g., galactose intolerance, lactose dehydrogenase deficiency, glucose-galactose uptake disorder).
- 22. If other clinical trial drugs (including placebo) were given
- within 30 days before the start of the study.
- 23. If, within 6 months of the commencement of the study, the investigator considers that participation in the study is inadequate due to abuse of drugs, alcohol, or other substances.
- 24. Subjects determined by the investigator that participation in clinical trials are inadequate for other reasons.