

979

Abdul Razack M<sup>1</sup>

1. University Sains Malaysia

## TRANSURETHRAL ELECTRICAL BLADDER STIMULATION

Hypothesis / aims of study **TEBS** is hypothesised to activate specific mechanoreceptor in the Bladder wall of under active Bladder due to various neurogenic aetiology and enhances the Bladder sensation to promote Voiding.

Aim: To find out whether TEBS really works in such Bladders and explore the possibility of applying this principle coupled with Biofeed mechanism to Areflexic, under active Bladder due to post spinalcord injury status and Diabetic Neuropathy.

Study design, materials and methods :Random selction from a pilot study of Various

Bladder dysfunctions from urology clinic of Hospital University Sains Malaysia.UDS done for Patient with incomplete emptying with above mentioned aetiology and taken for TEBS for immediate response.

Bladder filled with Normal saline and bugbee electrode passed under flexible cystoscopy and stimulation applied with weak diathermy current for a period of 5 mts-intermittently. Base line EEG and EEG during TEBS are taken to see any changes in terms of viserosensory cortical evoked potential- evaluated.Also patient's Subjective response and UDS changes assessed.

Results: Experiment with a 72 yr old man with multiple cervical prolapse who has no Bladder sense at all was able to appreciate definite Bladder sensation and the UDS response showed Active detrusor contraction.( Hard copy of the book let of my clinical research-highlighting this aspect is sent by post)

Interpretation of results: Objective by UDS, EEG and subjective from appreciation of patient's Appreciation of Bladder sensation.

Concluding message: **TEBS** could be tried for Patients with underactive Bladder and this could be extended for other application such as Electro motive Drug Administration as a method of drug delivery system

### References

1. TEXT BOOK OF NEUROGENIC BLADDER-Jacques Corocs and Erick Schick
2. ATLAS OF UROYNAMICS-Jerry Blaivas
3. UROLOGY-Cambell- Walsh

<i>Specify source of funding or grant</i>	INCENTIVE GRANT OF THE UNIVERSITY SAINS MALAYSIA
<i>Is this a clinical trial?</i>	Yes
<i>Is this study registered in a public clinical trials registry?</i>	No
<i>Is this a Randomised Controlled Trial (RCT)?</i>	No
<i>What were the subjects in the study?</i>	HUMAN
<i>Was this study approved by an ethics committee?</i>	Yes
<i>Specify Name of Ethics Committee</i>	RESERCH ETHICAL COMMITTEE(HUMAN)-UNIVERSITY SAINS MALAYSIA,KOTABHARU,MALAYSIA
<i>Was the Declaration of Helsinki followed?</i>	Yes
<i>Was informed consent obtained from the patients?</i>	Yes