

# The Role of NMES in Dysphagia Management: Clinical Use & Application of



**+NEW! SEMG MODULE INCLUDED!**



**TRAINING EVENT FOR ADVANCED-LEVEL  
Speech Therapists**

**WHO TREAT SWALLOWING DISORDERS**

**26-27 SEPTEMBER 2015**

**( Workshop Schedule and Lab )**

**Enquiry: Please contact GSBE Company Ltd at +852-2709-3800**

**Co-Organizer:**



**GSBE Company Ltd  
翹弦有限公司**

# The Role of NMES in Dysphagia Management: Clinical Use and Application of Guardian™

*The Guardian Way® is a fundamentally different approach for the treatment of dysphagia using Neuromuscular Electrical Stimulation (NMES).*

The Guardian Way® training course pairs the principles of electrophysiology with traditional swallowing exercises in order to re-educate laryngeal muscles in patients with dysphagia. The course provides an overview of patient selection, a rationale for Neuromuscular Electrical Stimulation (NMES) parameter settings, and electrode placement. Surface ElectroMyography (sEMG) lecture inclusive, with hands on demonstration of sEMG triggered NMES.

**When:** 26-27 SEP 2015 (Lecture and Lab)

**Where:** Kowloon Bay International Trade and Exhibition Centre (KITEC) Room 631

**Contact:** GSBE Company Ltd at 2709-3800  
or GSBECOMPANYLTD@GMAIL.COM



## Course Agenda:

### Introduction to Electrotherapy

- Definition
- History

### Evidence-Based Practice

- Current Research
- Contributions to Controversy
- Interpreting the Results
- Principles of Rehabilitation Research
- Contributing to the Evidence

### Understanding NMES

- Definition of NMES and TENS
- Principles of NMES Therapy
- Parameters of NMES
- What to Change and Why NMES for Dysphagia

### Understanding NMES and sEMG

- Electrode Placement and Rationale
- Neuroplasticity and Cortical Reorganization
- Determining Candidacy
- Contraindications and Cautions
- Goals of Treatment

### The Guardian Way®

- Clinician Control
- Skilled NMES
- The Biber Protocol
- Practice Explaining NMES
- Adjusting Parameters
- Placing and Securing Electrodes • Assessing for Contraction
- Troubleshooting

### Case Studies

- Specific Issues in Dysphagia Rehabilitation

### Lab 1

- Setting the Device
- Role Play – The Skilled Way to Introduce NMES to a Patient
- Placing and Securing Electrodes
- Assessing for Contraction

### Review of NMES Principles and Parameters

#### Lab 2

- Parameter by Parameter Singular Adjustment and Experience • Continued Practice with One-on-One Observation and Feedback

#### Lab 3

- Setting up sEMG assessment and training Adjustment and Experience • Continued Practice with One-on-One Observation and Feedback
- Setting up sEMG triggered NMES.

## Course Learning Outcomes:

### The Guardian Way®

*Upon successful completion of the training course, clinicians will be able to:*

- Explain Neuromuscular Electrical Stimulation (NMES)
- Describe the properties of electrical stimulation and its impact on muscle tissue
- Describe the patient selection criteria for which NMES is indicated for the treatment of dysphagia
- Identify the characteristics of the Guardian™ Way
- Discuss the properties of Guardian™ Electrodes
- Discuss and demonstrate the application of Guardian™ therapeutic protocol in the treatment of dysphagia
- Describe and justify why there is a continued need for traditional swallowing exercises in conjunction with the Guardian™ therapeutic protocol
- Explain why adjusting the electrical parameters of the Biber Protocol is so important
- Demonstrate effective communication skills in patient education and allied health professionals regarding the candidacy and use of NMES for the treatment of dysphagia



Spectramed, Inc is approved by the Continuing Education Board of the American Speech-Language-Hearing Association (ASHA) to provide continuing education activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

This course is offered for 1.25 ASHA CEUs (Advanced level. Professional area)





The Guardian Way® is a fundamentally different approach for the treatment of dysphagia, using Neuromuscular Electrical Stimulation (NMES).

**When:** 26-27 SEPTEMBER 2015 (Lecture and Lab) **Co-Organizer:** SpectraMed, Inc. and GSBE Company Ltd

**Where:** Kowloon Bay International Trade and Exhibition Centre (KITEC) Room 631

**Cost of the Course:** HK\$4,880 / US\$625

**Contact:** GSBE Company Ltd at 9190-0180 or [GSBECOMPANYLTD@GMAIL.COM](mailto:GSBECOMPANYLTD@GMAIL.COM)

\*\*\*Early Bird Registration onsite 18 July 2015 is just HK\$4,280 / US\$550. Act Fast! Please see application form for more details.  
\*\*\*Existing VitalStim Certificate Holder will have complimentary HK\$180/ US\$20 off regular price.

**Instructor:** Teresa Biber, M.S., CCC-SLP and Nancy Calamusa, MA, CCC-SLP

\*\*\*Signing Up Guardian Way Workshop together with Paediatric Workshop together with have huge discount, please see Application form for details.

## The Guardian Way® NMES/Dysphagia Training Course Instructors

### Teresa Biber, M.S., CCC-SLP

Ms. Biber is one of the most fervent, long-time advocates for neuromuscular stimulation (NMES) in the treatment of dysphagia. Initially, in the 1990's, she trained with physical therapists and adapted her experiences to utilize NMES to re-educate muscles affecting patients with dysphagia.

This led her to develop the Biber protocol, based on the fundamental electrophysiological principles of NMES that have been used successfully in neuro-rehabilitation for over 30 years. Her protocol allows speech pathologists to administer NMES treatments in half the time of other electrical stimulation protocols, while using half as many electrodes.

Ms. Biber has worked in various health care settings, including hospital, outpatient, and home health. In addition to dysphagia, her interests include head and neck cancer, as well as cognitive rehabilitation, including traumatic brain injury and dementia. She has presented on the topics of dysphagia, electrotherapy, head and neck issues, and dealing with traumatic brain injuries. She was published in *Advance* in 1997 and 1998 and in *Dysphagia* in 2005 and 2006. Ms. Biber is also a member of the Dysphagia Research Society.

With nearly 20 years of passion for NMES, Ms. Biber continues to provide training to hundreds of SLPs. Her NMES course is innovative, entertaining, and will leave the attendees with new respect and appreciation on the role of NMES and dysphagia.

#### INSTRUCTIONAL PERSONNEL DISCLOSURE:

**Teresa Biber, M.S., CCC-SLP,** Speech/Language Pathologist and Founder of the Biber Protocol, Program Coordinator at Broward Health Imperial Point National Instructor for: The Role of NMES in Dysphagia Management: Clinical Use and Application of Guardian.

Disclosure:  
Financial – Course Instructor for The Guardian Way® and receives compensation for training. Does not receive royalty's payments from sale of units or electrodes.  
Nonfinancial – No relevant nonfinancial relationship exist.



### Nancy C. Calamusa, MA, CCC-SLP

Nancy is well known for her dynamic approach to the treatment of pediatric feeding and swallowing disorders. She has extensive knowledge and nearly 25 years of experience in the field of pediatric feeding and swallowing

disorders encompassing a wide variety of settings. Nancy was responsible for instituting outpatient and inpatient pediatric feeding and swallowing therapy programs at the Bristol Myer Squibb Children's Hospital, Robert Wood Johnson University Hospital, New Brunswick, NJ. She was instrumental in establishing programs for the neonatal intensive care unit, pediatric intensive care unit, and the pediatric oncology unit. Following her tenure at Robert Wood Johnson University Hospital, she founded New Jersey Pediatric Feeding Associates to offer quality feeding and swallowing therapy to the pediatric population. Her unique approach recognizes the individual needs of the child and family and how effective diagnosis and therapeutic intervention will be the building blocks to success. She provides in-depth assessment of all aspects of feeding, swallowing, and mealtime resulting in a specifically designed treatment program addressing the child's as well as the family's needs.

Nancy received her BA degree in communication disorders at Douglass College, Rutgers University. She was awarded the degree of Master of Arts in Speech Pathology from Kean University, where she was awarded a graduate assistantship. Nancy has been employed in various settings including Early Intervention, medical facilities, private institutions as well as offering private therapy. Nancy has provided educational inservices, lectures, and training workshops for physicians, medical students, colleagues, parents, graduate students and the community. She has spent the last 10 years of her career educating and training in the area of pediatric dysphagia. Nancy continues to serve as a mentor to graduate students and clinical fellows in the field of speech pathology. Her expertise has led to great successes with rehabilitating/restoring swallow function to critically injured and medically fragile children.

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Nonfinancial – No relevant nonfinancial relationship exist.

Spectramed, Inc. has developed and patented a licensed technology trademarked as The Guardian Way®. Because there are no other like-kind protocols available, course offerings will only cover information that pertains to the effective and safe use of the above-named intellectual properties

This presentation will focus exclusively on The Guardian Way® and will not include information other similar or related electrotherapy devices.



Full Name: \_\_\_\_\_ Phone: Country Code: ( ) - \_\_\_\_\_

Address (For posting Certificates): \_\_\_\_\_

Email: \_\_\_\_\_

Facility/ Hospital where employed: \_\_\_\_\_

Facility Address: \_\_\_\_\_

Facility Phone: \_\_\_\_\_ Facility Fax: \_\_\_\_\_

VitalStim/Ampcare Certificate Holder? YES / NO (Please circle) Year of Certificate: \_\_\_\_\_

Do you need Reservation for Hotel in Hong Kong: YES / NO  
(If YES, please return the completed Hotel Reservation Form for us).

**FAX APPLICATION: +852- 2709-3828 OR +852-3020-0190**

Room 813, New City Centre, 2 Lei Yue Mun Road, Kwun Tong, Kowloon, HONG KONG.  
香港九龍官塘鯉魚門道2號新城工商中心813室 Tel: (852) 2709 3800 Mob: (852) 9190-0180

| Details:  | Please tick below: | Amount to Pay        |
|---|--------------------|----------------------|
| (A) 26-27/9/2015 NMES/sEMG Guardian Way         |                    | HK\$4,880 / US\$625  |
| Early Bird Workshop (A) before 18 July 2015     |                    | HK\$4,280 / US\$550  |
| (B) 28/9/2015 Paediatric Workshop               |                    | HKD\$3,880 / US\$500 |
| Apply for Workshop (A) and (B) at the same time |                    | HK\$7,280 / US\$940  |
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| VitalStim/ AmpCare Certificate Holder           |                    | - HK\$180 / -US\$20  |
|   |                    |                      |
| TOTAL PAYABLE:                                  |                    | HK\$ / US\$          |

Please make cheque payable to: **GSBE COMPANY LTD** or deposit payment to our accounts below:

Bank Name: **Standard Chartered Bank (Hong Kong) Ltd**  
Bank Account Name: **GSBE COMPANY LTD**  
Bank Account No: **003- 570-1-1041762**

*Please fax your deposit payment slip to our fax number together with this application form for registration.*

## **YOU BENEFIT IMMEDIATELY AFTER TAKING THIS COURSE:**

1. Purchase of our Guardian Electrodes at 10% discount of Regular Electrode Price. (Life time discount)
2. Certificate of Guardian Way® will be granted.

**DON'T WAIT ! CLASS SIZE IS LIMITED !**