HOW YOU COULD HELP

Being an official, you could help to improve the current state of Advanced Voice Function Assessment (AVFA) task group by creating official systems, to coordinate and to disseminate research outcomes among laryngologists, phoniatricians, voice pathologists and engineers. This would involve creating communication centers, where these professionals will meet to communicate in a scientific way their interdisciplinary opinions and results.

HOW THE STRUCTURE CAN BE CHANGED

The role of officials from the various organizations is to create better structures, to include interdisciplinary experts, and to inform the public. The officials will promote the interdisciplinary cooperation, and the benefits this approach brings to the AVFA.

GET INVOLVED

Cooperation with officials is a paramount factor to ensure success of AVFA. Through this cooperation theoretical research will be combined with new developments to propel AVFA and to generate scientific and clinical data to improve voice production models and voice treatment protocols.

LITTLE ATTENTION GIVEN TO COOPERATION

Creating AVFA will drastically improve currently felt absence of cross professional cooperation in clinical voice care. This new approach will result in eliminating current intervention patterns, --wherein an individual faced with a problem of the voice receives uncoordinated care from physicians, voice pathologists or other voice care specialists. By creating AVFA, this voice care pattern will be changed.

The aim of COST: Enhance advanced voice function assessment

COST is supported by the EU RTD framework programme

Information for Health Professionals and Professional Voice Users

www.cost2103.eu
www.cost.esf.org

Officials
A NEW STRUCTURE

Many people, especially those who need to use voice at work may experience voice problems that may have profound effects on their professional and social life styles. Many lay individual, including health care providers are not aware of how these voice disorders may be acquired, treated, prevented, and how devastating voice loss, even for a short time may be to a human being. This clearly unsatisfactory situation calls for an immediate and focused action.

WHO ARE WE?

COST 2103 is a European Cooperative Research Action group that brings together clinicians, scientists and researchers from more than 15 countries, working in the fields of laryngology, phoniatrics, voice-speech pathology and therapy, speech acoustics, signal processing, and computer sciences.

WHAT DO WE WANT?

1. To improve voice production models and algorithms impacting voice/speech processing applications, and to improve the assessment and treatment protocols of voice disorders.
2. To develop accurate and clinically useful methods: (a) to improve the quality of life for patients with voice problems and, (b) to protect people who use their voice as a primary tool of labour in their occupation against developing voice disorders.
3. To build databases of voice signals to test the above outline methods.
4. To assist selected European Union Committees (i.e. the Committee on Phoniatrics of the European Laryngological Society) in issuing guidelines and to publish voice/speech protocols for diverse European language groups.

WHAT DO WE DO?

We coordinate research of five working groups.

Working Group 1: Modelling

Goals: Improving voice production models for both normal and pathological conditions, and algorithms for speech synthesis.

Working Group 2: Analysis & Assessment

Goals: Develop accurate and robust objective/quantitative methods for assessing pathological voice functions.

Working Group 3: Data Bases

Goals: Build, collect and manage databases of pathologic voices from several European language groups.

Working Group 4: Substitution & Occupational Voices

Goals: Develop new instruments and devices for monitoring and evaluating occupational voice problems, as well as for investigating quality and improvement of voice in a post-surgically and or post radiation larynx compromised by various oncolologic treatments.

Working Group 5: Dissemination

Goals: Raise public awareness about voice disorders and voice-related quality of life. Develop liaison with various professional associations, governmental authorities, health policy makers etc.

Regular meetings.

Mutual exchange for enhanced cooperation.

THE NEED FOR A NEW STRUCTURE: ADVANCED VOICE ASSESSMENT

In order to obtain a holistic picture, and true advanced voice function assessment cooperation between especially laryngologists, phoniatricians, engineers, voice pathologist, by the help of officials, is inevitable and necessary.

WHAT SHOULD BE DONE

The environment at people’s work places needs to be examined and public guidelines need to be made; many people have trouble with air conditioners and air refreshing products. Dust is another major factor. Teachers and pedagogues, and many others with voice related jobs, are in the danger zone for both voice- and ear damage, as they work in a very noisy environment. Specially designed ear plugs and speaking courses could prevent a lot of damage for this group.

PREVENTION AND TREATMENT

The tools (guidelines) to prevent voice disorders are relatively simple and many disorders are due to the lack of knowledge about speaking/singing technique, (food) allergies and infections, stomach acid bacteria (helicobacter) and reflux, and life style in general (cigarettes, alcohol, foods, artificial additives). Furthermore, it is of immense importance to have measuring equipment that helps determining diagnosis. The equipment includes provision of acoustical measures, physiological measures, as well as psychological measures of the voice.