

UEP Voice Committee 2020 report

This report reviews (some of the) activities of the members of the UEP Voice Committee over the last 18 months. It will be subdivided into general areas of focus of the committee (although clearly some of these coincide) including:

- 1.Safety during Covid,
- 2.Virtual tools and approaches
- 3.Surgical and Peri-surgical approaches, and voice therapy
- 4.Academic and Educational activities
- 5.Dissemination of information to the public
6. New Members' activities

The voice committee is always open to new members; the key ingredient to membership being an interest in the sub- discipline.

Recent members include:

Cori Casanova, Eugenia Chavez, Ilter Denizoglu, Ahmed Geneid, Tamas Hacki, Ramil Hashimli, Devorah Kiagiadaki, Mieke Moerman, Haldun Oguz, Ekaterina Osipenko, John Rubin, Josef Schlomicher-Thier, Bozena Wiskirska-Woznica, Antoinette am Zehnhoff - Dinnesen

New members include: Wolfgang Angerstein and Philippe DeJonckere

1. Safety during Covid

Activities of the UEP Voice Committee over the last 12 months have been overtaken by the effects of the COVID virus. In this domain our focus has been on establishing an environment, be it virtual or actual, in which it might be safer to care for patients with phoniatic issues, and on making this information available to the public.

To that end, Ahmed Geneid, Tadeus Nawka and UEP colleagues have published in the JLO the following article: UEP Position Statement

relating to Phoniatic and Laryngological services during the COVID-19 pandemic.

This article, published in May 2020 clearly spelled out what we as a group felt was safe and sensible from the standpoint of direct face-to-face clinical activity.

Ahmed also led, together with UEP colleagues, a UEP Webinar Roundtable on safety and efficacy relating to the reopening (or closing) of clinical services during COVID, which was held in June 2020 and was placed on YouTube for greater public awareness.

Directly relating to the pandemic and together with colleagues, Ahmed has published the following two articles:

JJ Paterno, M Lappalainen, L Lehtonen, Ahmed Geneid,
Healthcare workers high COVID-19 infection rate: the
source of infections and potential for respirators and
surgical masks to reduce occupational infections
published in medRxiv, 2020 - medrxiv.org

M Tedla, E Tedlova, M Suchankova, A Geneid,
Postintubation Dysphagia During COVID-19 Outbreak-
Contemporary Review 2020 – Springer
(see Antoinette's book below)

Ahmed and colleagues are also putting the final touches on a UEP 2020 survey, in preparation for publication, relating to a review of Phoniatic practices around the world in response to COVID. They plan to repeat this survey in late Spring 2021 to see what changes have become imbedded into Phoniatic practice due to the pandemic.

In a similar vein, Devora Kiagiadaki has been undertaking a study looking at how masks affect speech intelligibility in children

Both Wolfgang Angerstein (and colleagues), and John Rubin (and colleagues) are involved in the assessment of aerosol generation in enclosed spaces. This will be a fertile area of research over the next 12 – 18 months.

2. Virtual tools and approaches

Mieke Moerman has continued to develop and to market the TelePHON.digital tool, which is characterised as ‘a web tool accessible with pc and smartphone, personalizes coaching and treatment services between service/care providers and clients/patients.’ She has established a number of pilot licenses.

Ramil Hashimli and colleagues have continued their work with the software package ADPVoice. Ramil advises that the team has created a new version and that in a few months the mobile application will be ready for use.

John Rubin has become the ENT Clinical lead for Medefor, an organisation that offers virtual healthcare (although they have yet to do so for ENT problems).

In part in preparation for this, he and Ruth Epstein have taken a pilot license through Mieke’s TelePHON tool. They have also taken Elizabeth Hodges’ workshop on the virtual program EVALU8.

3. Surgical and peri-surgical intervention and assessment and voice therapy

These areas have been subjects of active investigation/ development by members of the committee. Surgical and peri-surgical investigations have included the following:.

Ilter Denizoglu, E Baser and colleagues have developed and published in Annals of Otology, Rhinology, Laryngology on surgical techniques to reduce intraoperative tissue trauma, using the 'mini-microsuture technique for phonosurgery'.

Ilter, E Baser and colleagues have also published in J Voice on a novel surgical approach to the posterior larynx in bilateral vocal cord paralysis, using a combination of botulinum toxin injection and direct microscopic dissection of the inter-arytenoid muscle.

Isabel Tulloch and John Rubin have published in J Voice on pre-surgical anxiety in patients, entitled: Assessment and management of preoperative anxiety.

Devora Kiagiadaki and colleagues have published a study on speech parameters in a group of benign vocal fold lesions treated with microsurgical techniques.

John Rubin continued to use in clinical practice, through early 2020, together with his Anaesthetic colleagues, the THRIVE technique of anaesthesia that allows for high- flow humidified oxygen via nasal cannula rather than other forms of intubation. By then it had been used by the team in over 500 routine phono-surgical cases.

Unfortunately one outcome of the Pandemic has been the limitation on such high- flow techniques and on sub-glottic jet ventilation due to potential spread of aerosols. One wonders if these techniques may prove just a historical footnote!

As a part of this review he did present his audit in 2020 of 2528 consecutive surgical cases (over 2200 phono-surgical cases included), looking at morbidity and trends

Voice therapy has been a highlight of this past year of the committee/ committee members and has included:

The publication of the article entitled 'Acoustic Voice Quality Index as a Potential Tool for Voice Screening', AM Laukkanen, T Ikavalko, L Rantala, A Geneid, J Voice 2019

The publication by Tamas Hacki of a chapter entitled Phoniatics, Voice function disorders: dysphonia, vocal fold nodules, mutation disorders, in: Katona Hirschberg: Pediatric Ear-Nose-Throat Medicine (Hungarian) Medicina, Budapest, 2020, ISBN: 978-963-226-766-1

The publication by Cori Casanova and colleagues in Folia Phoniatica of their work on: Effects of a Voice Training Program on Acoustics, Vocal Use, and Perceptual Voice Parameters in Catalan Teachers, P Godall, E Polini, M Amador, C Casanova - Folia Phoniatica et ..., 2020 - karger.com

The publication by Ilter Denizoglu and colleagues in J Voice: Efficacy of Doctorvox voice therapy technique for mutational falsetto.

Ilter also successfully patented (US Patent 10,369,321, 2019 - Google Patents) an invention that relates to voice therapy and a vocal training device .

4. Academic and Educational activities

Members of the committee have been particularly active in publishing materials in books this year

Antoinette am Zehnhoff- Dinnesen and colleagues have published their monumental work Phoniatics I, in the European Manual of Medicine series, and they are well into the completion of their second volume. A number of the Committee members have contributed sections/ chapters, including:

R Haubrich, F Šram, J Vydrová, B Wiskirska-Woźnica,
Diagnosis and Differential Diagnosis of Voice Disorders

W Seidner, M Weikert, B Wiskirska-Woźnica
Rehabilitation and Prognosis of Voice Disorders -

M Śliwińska-Kowalska, B Wiskirska-Woźnica
Special Kinds and Clinical Manifestation of Voice Disorders

H Oguz, JP Marie, S Marszałek, A Müller, T Nawka,
Rehabilitation and Prognosis of Voice Disorders

E Niebudek-Bogusz, A Obrębowski, H Oguz
Special Kinds and Clinical Manifestation of Voice Disorders

S Mahmood, W Mattheus, D Mürbe, T Nawka, H Oguz
Basics of Voice Disorders

S Akbulut, A am Zehnhoff-Dinnesen, F de Jong
Basics of Voice Disorders

W Mattheus, D Mürbe, T Nawka, H Oguz, E Osipenko
Basics of Voice Disorders

V Chrobok, H Czerniejewska-Wolska, F de Jong
Rehabilitation and Prognosis of Voice Disorders

J Rubin and K Shields, 5.6 Central Neurogenic Voice Disorders pp 271-80

L Bartha-Doering, P Birkholz, C Casanova, F de Jong
Basics of Phoniatics

M Echternach, U Eysholdt, M Fuchs, T Hacki
Basics of Voice Disorders

B Řepová, J Romportl, J Schlömicher-Thier
Rehabilitation and Prognosis of Voice Disorders

M Echternach, U Eysholdt, F Fussi, A Geneid, T Hacki
Diagnosis and Differential Diagnosis of Voice Disorders

C Casanova and colleagues:
Basics of Phoniatics.

John Rubin and Robert Sataloff have published an historical review, looking through back- articles in the Journal of Voice, entitled: Historical and Historic Articles in Voice: A compilation from Journal of Voice, in, Journal of Voice Source Readings, Series Editor Robert Thayer Sataloff, Publication date 2020.

Ilter Denizoglu published (in Turkish) the textbook 'Klinik Vokoloji' (Textbook of Clinical Vocology)

A selection of other publications that the Committee have been involved with include:

OPENGLOT- An open environment for the evaluation of glottal inverse filtering,
M Airaksinin, M Salmi, E Vilkman, A Geneid – Speech ...,
2019 – Elsevier

A Nasoendoscopic Study of “Head Resonance” and “Imposto” in Classical Singing

M Aura, A Geneid, K Bjørkøy, M Rantanen... - Journal of Voice, 2020 – Elsevier

Relationship between laryngeal signs and symptoms, acoustic measures, and quality of life in Finnish primary and kindergarten school teachers,

AM Laukkanen, I Ilomäki, E Kankare, A Geneid - Journal of Voice, 2020 - Elsevier

SK Kaytez, A Kavuzlu, H Oguz

Laryngeal Inflammatory Myofibroblastic Tumor With Anemia and Thrombocytosis

Ear Nose Throat Journal 2019 Sep 30;145561319874057.

doi: 10.1177/0145561319874057. Online ahead of print.

Graham Welch, David Howard and John Nix recently published their book, the Oxford Handbook of singing, to which member(s) of the committee (including John Rubin and Ruth Epstein) contributed chapters

Janice Chapman and Ron Morris are putting the finishing touches on their 4th edition of Singing and Teaching Singing: A Holistic Approach to Classical Voice, to which member(s) of the committee (including John Rubin) have contributed chapters

5. Dissemination of educational information to the public.

Tamas Hacki, Mieke Moerman and UEP colleagues have published in Journal of Voice the article: Malregulative Rather Than 'Functional' Dysphonia: A New Etiological Terminology Framework for Phonation Disorders—A Position Paper by the Union of European Phoniaticians. It is our hope that this stimulates interest in the field into the area of 'functional' voice disorders

Ahmed Geneid et al have undertaken a European survey looking at voice rest and sick leave subsequent to phonosurgery, entitled: Voice rest and sick leave after phonosurgical procedures: surveys among European laryngologists and phoniaticians
H Rihkanen, A Geneid – European Archives of Oto-Rhino-Laryngology, 2019 – Springer

John Rubin has helped in the accrual to a UK national RRP outcomes database

Ruth Epstein and John Rubin have continued their MSC activities as leads of the Voice Pathology Module in the UCL MSC of Performance Arts Medicine; they have also continued their teaching activities at RADA (Royal Academy of Dramatic Arts).

John also undertook a PODCAST with the Music Journalist Sean Kerwick talking about voice production in older singers, as well as a Webinar through the UEP on changes in the voice throughout life.

Finola Ryan ran a Royal Society of Medicine, Occupational Medicine Section, Webinar on Performing Arts: Challenges of professional singers during lockdown. John, Jonathan Fishman and Hara Trouli all contributed to this

Eugenia Chavez has successfully initiated 4 virtual COMET academic sessions on phoniatics and acoustics.

5. New Member forum

Wolfgang Angerstein has summarised his recent Academic activities in the following manner:

During the last 18 months our scientific research focused on

- laryngeal ultrasound (especially colour Doppler signals of the vibrating vocal cords during phonation)
- visualization of aerosols during singing and playing on wind instruments
- stroboscopy and sonography of brass player's lips.

Prof Angerstein and team hold a polyclinic for phoniatics and pedaudiology within the University Hospital of Düsseldorf. They also have a special clinic for brass musicians where they see patients with embouchure dystonia or rupture of the orbicularis oris muscle (Satchmo's syndrome).

They will host the annual meeting of the German Society for Musical Physiology and Musicians' Medicine (www.dgfmm.org) on Nov. 19-20 2021.

Philippe DeJonckere has submitted a summary of his recent publication and activities, as follows:

General Coordinator of the Scientific Council: Federal Agency for occupational Risks (FEDRIS) (Brussels).

Building up the '**Virtual Museum of Phoniatics Antoinette Am Zehnhoff-Dinnesen**', (chief-curator).

Publications (*related to voice*)

Philippe Henri DeJonckere , Jean Lebacq. **Vocal Fold Collision Speed *in vivo*: The Effect of Loudness.** Journal of Voice In Press, Corrected Proof Available online 28 September 2020.

Valentina Di Natale, Giovanna Cantarella, Philippe H. DeJonckere. **Semiocluded Vocal Tract Exercises Improve Self-Perceived Voice Quality in Healthy Actors.** Journal of Voice Available online 15 September 2020. [In Press, Corrected Proof](#).

Philippe Henri DeJonckere , Jean Lebacq. **Lung volume affects the decay of oscillations at the end of a vocal emission.** Biomedical Signal Processing and Control [Volume 49](#), March 2020, Pages 528-539.

Philippe Henri DeJonckere , Jean Lebacq. **Intraglottal Aerodynamics at Vocal Fold Vibration Onset.** Journal of Voice Volume 35, Issue 1, January 2021, Pages 156.e23-156.e32

Philippe Henri DeJonckere , Jean Lebacq. **In Vivo Quantification of the Intraglottal Pressure: Modal Phonation and Voice Onset** Journal of Voice [34, Issue 4](#), July 2020, Pages 645.e19-645.e39.

Federica Di Berardino , Diego Zanetti , Daniele Monzani , Bruno Rossaro , Giovanna Cantarella , Philippe DeJonckere , Lorenzo Pignataro **The Atopy Index Inventory: A Brief and Simple Tool to Identify Atopic Patients** ORL J Otorhinolaryngol Relat Spec. 2020 Aug 13;1-9. doi: 10.1159/000508813. Online ahead of print.

Philippe Henri DeJonckere , Jean Lebacq. **The dynamics of vocal onset.** Biomedical Signal Processing and Control 49; 2019; 28 -39.

P. H. DeJonckere, H. Stoffels. **Spectral specificities of acting voice in professional actresses**

Proceedings MAVEBA 2019 Florence University Press C. Manfredi, Ed. 2020 pp. 163 – 166

P. H. DeJonckere , Jean Lebacq. **Aerodynamics of glottal vibration onset**. Proceedings MAVEBA 2019 Florence University Press C. Manfredi, Ed. 2020 pp. 129-132.

Valentina Di Natale, Giovanna Cantarella, Claudia Manfredi, Annaclara Ciabatta, Cosimo Bacherini, Philippe H. DeJonckere. **Short term effect of SOVTE on healthy actors' voices**.

Proceedings MAVEBA 2019 Florence University Press C. Manfredi, Ed. 2020 pp. 167 – 170.