

Abstract

Dr. Hernández-Villoria from Venezuela, member of Biomarker committee, have contributed to virtual 4th meeting of this com in January 15th, with a speak that proposed to a model that harmonizes the UEP-ELS voice assesment guidelines and a voice analysis model for screening preclinical and prodromics Parkinson's disease based based on an extensive review of the literature carried out by members of the group in recent months (Dr. Pedersen, Dr. Nashaat, Dr.Haydarova and himself). The presentation also incorporates the consideration of how subtle changes in the voice, prior subtle preclinical changes in other fine motor skills require the use of acoustic parameters different from those conventionally used in clinics and studies (more complex parameters, as "fractal dimension", "normalized mutual information" or long term parameters (LTAS, CPP, CPPS) instead of short term parameters like mean Fo, SDFo, GNE, HNR, jitter, shimmer). Furthermore, gave rise to idea from discussion around substitution of some videolaryngostroboscopy, laryngeal electromiography, acoustics pharyngometry and 4d computed tomography vocal tract parameters by parameters obtained por acoustics inverse filtering, as suggested by Dr. Moerman. This fruitful meeting opened the way to develop a real, single and very early predictive screening tool for Parkinson Disease in the near future, although many steps are needed yet.