

Occupational Voice Loss



Nerys Williams
Paul Carding

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Occupational Voice Loss Nerys Williams, Paul Carding, 2005-08-09 The first guide to cover aspects of voice loss from an occupational health perspective this reference covers procedures to detect assess and prevent voice loss in schools industrial facilities and other workplace environments as well as covers occupational groups at risk and risk factors for developing voice loss analyzing various chemical environmental psychological and medical causes of this potentially work related condition

Occupational Voice Philippe H. Dejonckere, 2001 Introduction The concept of occupational voice disorders Philippe H Dejonckere People using their voice professionally are at risk for occupational voice diseases and require specific prevention and treatment was the topic focused on by the third Pan European Voice Conference organized in August 1999 at Utrecht University The present book includes the main tutorial lectures with reviews of the most relevant research data and opinions regarding this specific area of concern Occupational voice users include not only singers and actors but also teachers politicians lawyers clergymen telephone operators etc

- 1 The pathogenesis of voice disorders in such patients can be primarily related to their occupation and thus after adequate differential diagnosis these need to be recognized as true occupational diseases in the same way as for example occupational hearing loss
- 2 A surfeit of information is available on the potential damage from exposure to excessive noise levels
- 3 4 Noise induced hearing loss is generally recognized as a typical occupational disease The relationship between dose and effect is clear as is documented in publications by the International Organization of Standardization ISO
- 5 The dose combines intensity and duration and therefore the concept of dosimetry is of major importance Also of importance is the definition of the safe limits for exposure to noise However factors regarding individual susceptibility to noise and the reversibility of early effects also have to be considered as well as possible preventive indices of noise induced hearing loss
- 6 In some but not all respects noise induced hearing loss may be considered as a useful model for occupational voice disorders

Epidemiology Titze

- 7 compared the percentage of the US working population and of the voice clinic load for different occupation categories for example telephone marketers constitute only 0.78% of the total workforce but 2.3% of the clinic load teachers represent 4.2% of the US workforce and 20% of the voice clinic load Studies based on questionnaires have suggested that teachers and aerobic instructors are at high risk for disabilities from voice disorders and that these health problems may have significant work related and economic effects
- 8 9 For example Russel et al
- 10 investigated the prevalence of self reported voice problems in teachers 16% of teachers reported voice problems on the day of the survey 20% during the current teaching year and 19% at some time during their career

Roughly speaking we can conclude from the several studies published during the 1990s that

about 20% of teachers experience voice disorders 11 Voice dosimetry Objective measurement of vocal use and vocal load is necessary for the identification of activities and working conditions that are at risk Voice dosimeters can provide information on the total vocalization time and sound pressure level over a whole working day in a real life situation 12 14 Just as noise dosimeters define acceptable levels of noise exposure voice dosimeters help to define the average acceptable limits for vocal load Hyperphonation Repeated mechanical vibrations transmitted to the body tissues by engines or machines are known to be able of eliciting in certain conditions specific kinds of pathology which are also considered to be occupational diseases 15 16 The vibration may involve the whole body e g in a vehicle or mainly the hand wrist elbow or shoulder hand held power tools There are standards in the field of occupational health that stipulate the acceptable limits for tissue acceleration values depending on the frequency 17 Titze's calculations suggest that the risk of damage from tissue vibration is exceeded by occupational vocalists such as telephone marketers and teachers 18 In the last few years much new and important information has materialized on the dangers of hyperphonation i e loud and prolonged phonation beyond the physiological range Laboratory experiments on canine larynges hyper phonated in vivo under anesthesia demonstrated obvious damage to vocal fold epithelia 19 The basement membrane shows early lesions and seems to be particularly sensitive 20 A clinical study by Mann et al 21 in drill sergeants demonstrated significant increases in vocal fold edema erythema and edge irregularity and decreases in vocal fold mucosal wave and amplitude of excursion following a five day training period Voice fatigue relief and recovery According to Titze 18 two different aspects must be considered Muscle fatigue the muscle chemistry needs to be reset for the following contractions Epithelial cells may die and be shed due to repeated traumata New cells have to develop underneath Collagen and elastin fibers may have separated from the structural matrix of the lamina propria and have to be removed and replaced by the fibroblasts Detached protein debris will be removed and re used by the fibroblasts to make new protein fibers that will support the connective tissue structure Therefore minor destruction and repair is continuous Can the regenerative processes keep up with the destructive process and what are the physiological time constants in these processes When there is damage to the joints ligaments tendons or other connective tissue the recovery time will be proportional to the amount of localized tissue injury that has occurred If muscle fatigue is the only complaint the recovery period required will probably be shorter Hypothetical curves for tissue injury and the recovery period for human phonation have been suggested by Titze 18 Nevertheless vocal fatigue is still difficult to identify in practical and clinical situations and Buekers has questioned the clinical relevance of voice endurance tests 13 14 Environmental factors The relative humidity of the air affects vocal function the most common subjective complaints of teachers with regard to their working environment are the dryness and dustiness of the air Professional singers note that singing is more difficult in a dry environment dry air puts an increased strain on the phonatory apparatus and raises the demands on its efficacious and appropriate use 22 The human voice is very sensitive to decreases in the relative humidity of inhaled air because in

experimental conditions even after short provocation a significant increase in perturbation measures has been found 23 Noise is also a very common and relatively well known risk factor in the working environment of professional voice users It has been observed that the sound level of the speaking voice significantly increases in ambient noise levels starting from 40 dB A about 3 dB for each 10 dB increase in ambient noise due to the Lombard effect 24 25 In kindergartens for example noise levels have been found to vary between 75 and 80 dB A 26 27 Effects of stress Mendoza and Carballo investigated the effects of experimentally induced stress on voice characteristics 28 In conditions of stress induced by means of a stressful environment and cognitive workload tasks they observed 1 an increase in F₀ with respect to baseline 2 a decrease in pitch perturbation quotient and in amplitude perturbation quotient 3 a lower presence of turbulent noise in the spectral zone in which the existence of harmonic components is not expected 2800 5800 Hz with respect to harmonic energy in the 70 4500 Hz range 4 an increase in harmonic energy in the 1600 4500 Hz range with respect to harmonic energy in the 70 1600 Hz range The increase in F₀ seems to be considered a universal indicator of stress and of cognitive workload as is the lowering of F₀ perturbation The response to a stressful stimulus demands a high level of activation which in turn produces elevated ergotropic arousal that would cause an increase in the tension of the vocal muscles producing a higher and more tense voice Mattiske et al 29 report that teachers seem to experience a significant degree of stress during their work 30 and there is some research evidence that anxiety and stress are associated with the development of voice problems 31 Marks 32 compares teachers voices with those of nurses and finds that psychological stress is reported more frequently by teachers There are indications that stress psychological tension personality and other psychological factors may play an important role in voicing problems among teachers 30 33 34 Vocal fold lesions Phonotrauma may result in typical vocal fold lesions to be interpreted as a direct consequence of mechanical stress and or as tissue reaction to that stress Vocal fold nodules and polyps are classical examples 35 36 but also contact ulcerations granulomas of the vocal processes 35 36 37 if not induced by acid re flux Vocal fold hemorrhage is generally consecutive to acute phonotrauma 35 Depending on reversibility and context microsurgery may become indicated as an important element of the treatment 38 39 Care and cure Patients with occupational voice disorders should benefit from specific medical and paramedical treatments as well as from technical aids with respect to their particular pathogenesis There are major economical aspects at stake and occupational rehabilitation plays an important role In a few cases compensation and professional re orientation is necessary Outcomes of the various possible treatment strategies have still to be investigated However prevention is still essential There are indications that vocal hygiene education programs could improve the voice by reducing vocal abuse in daily life and by practising specific strategies to maintain classroom order and to reduce the use of the voice during teaching 40 Further research is needed to demonstrate the usefulness of prevention strategies on the incidence of actual voice disorders

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Banking Insurance and Finance Union (BIFU), London (GB). Research Department,1997

Reducing the Risks from

Occupational Noise European Agency for Safety and Health at Work, 2005 Every day millions of employees in Europe are exposed to loud noise at work This is the case not just in heavy industries but also in a wide range of sectors including agriculture and service industries Noise at work has been designated as the theme for the European Week for Safety and Health 2005 and this report examines noise control measures including relevant European Directives and supporting international standards It looks at interventions in the workplace to examine and prevent the risks arising from noise exposure in terms of personal social and economic cost of ill health and accidents

Professional Voice Robert Thayer Sataloff, 1997 Covers topics from singing to surgery and stage fright from history to halitosis and theater to therapy Lavishly illustrated featuring nearly 750 illustrations as well as figures and tables Doubled in size from the first edition containing 68 chapters and almost fully rewritten and revised Combines the expertise of world renowned physicians surgeons voice therapists singing teachers and other voice professionals

Folia Phoniatica Et Logopaedica, 2007 **Preventing Occupational Hearing Loss** John Robert Franks, 1996 *Our Times*, 2005 **New York Medical Journal**, and **Philadelphia Medical Journal**, 1923 International Record of Medicine and General Practice Clinics Edward Swift Dunster, James Bradbridge Hunter, Frank Pierce Foster, Charles Eucharist de Medicis Sajous, Gregory Stragnell, Henry J. Klaunberg, Félix Martí-Ibáñez, 1913 **Diseases of the Upper Respiratory Tract** Patrick Watson Williams, 1901 *British Medical Journal*, 1898 **Transcripts of the Thirteenth Symposium Care of the Professional Voice** Van Lawrence, 1985 *The Lancet*, 1895 *European Noise at Work Summit - 'Stop that Noise!'* European Agency for Safety and Health at Work, 2004 The 2005 noise at work summit was jointly organised by the European Agency for Safety and Health at Work and the United Kingdom Presidency of the European Union as the culmination of the 2005 Stop that noise campaign on the eve of the 2003 noise directive coming into force EU policymakers social partners and leading safety and health experts met to consider worker protection from occupational noise and to reward organisations that have already managed to implement effective solutions The summit aimed to give stakeholders an opportunity to discuss challenges and future strategies for a better control of noise at work and to provide an overview of the different measures and good practices applied across Europe to tackle this issue with a view to the implementation of the 2003 noise directive in Member States

Encyclopaedia Medica, 1922 The Christian Work and the Evangelist, 1903 **The Pacific Coast Musician**, 1921 The Musical Monitor, 1922

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