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EUROPEAN SOCIETY OF DENTAL ERGONOMICS

23rd Annual Meeting, 4-5 June 2010 in Ghent, Belgium

AN ERGONOMIC WAY OF SITTING, LOOKING AND ORGANIZING IN DENTAL PRACTICE - AN ANALYSIS OF IMPORTANT ASPECTS –

Registration: Thursday, 3 June, before the Get together party, starting at 20.00 hrs. Friday 4 June, registration desk open on 08:00 hrs.

Friday, 4 June 2010

09.00-09.20 Welcome address and introduction.

09.20-12.15 Visual perception and use of various optical means.

Peter Derksen, optometrist, and Joseph Wouters, registered occupationnal assessor and ergonomist (NL)

- Unit 1. Function of the eye: perception, visual acuity, viewing direction eyes, influence lighting, perception at the end of the working day.
- Unit 2. Corrections, its possibilities, form and size of working frame, visual acuity and working distance, discrepancy multifocal and dentistry.
- Unit 3. <u>Use spectacles and loupes</u>: position upper body and arms, viewing direction, use spectacles and spectacles with prism, research output, advantages and disadvantages of loupes, correct adjustments loupes, use of lighting.

10.30-11.00 Break and visit posters.

- Unit 4. Operating screens in dental practice: the use of images on a flatscreen, consequences of visual corrections, requirements position screen, size letters in relation with distance, contrast, requirements use of screen, future systems.
- Unit 5. Use of a microscope, principles of use and ergonomic aspects.
- Unit 6. Practical experiences: with good and bad solutions.

12.15-13.30 Lunch and visit posters.

Program A: Intended for an introduction to an ergonomic patient treatment.

13.30-16.45 **Basics of an ergonomic approach. Principles and practical use**Jacqueline Bos, physiotherapist and Rolf de Ruijter, dentist and dental ergonomist (NL).

Unit 1. <u>Sitting working posture</u>: principles, working stool and way of using. Patient positioning: body, head and jaws and support of neck and head. Requirements patient chair for dentist and comfort of patient. Sitting around patient and positioning instruments and operating light.

Unit 2. Four handed dentistry: general principles.

14.45-15.15 Break and visit posters

- *Unit 3.* Ergonomic checklist for dental equipment: for use in the individual situation.
- *Unit 4* Demonstration of an ergonomic check of dental equipment.
- *Unit 5.* Final discussion, with summary.

Program B Intended for discussing the theoretical background of a working posture.

13.30-16.45 Theoretical basis sitting working posture.

Paul Engels, dentist (NL)

An introduction to basic knowledge of the anatomy and physiology of the human body, when standing, lying in the patient chair and emphasized: the working posture of the sitting dentist.

Unit 1. Live anatomy for understanding posture. Availability of this knowledge: why?. Summary anatomy and physiology, as presented during ESDE meetings. Balance and equilibrium: basis features.

14.45-15.15 Break and visit posters.

Unit 2. Role masticatory system as part of the human kinetic chain. Basic_principles of a healthy sitting posture. Physical problems related with a bad posture. Physiological and anatomical background of the ergonomic requirements regarding the operator's stool. Reflection about the lack of interest of the dentist for own well-being.

17.00-18.00 General Assembly

20.00 Festive dinner

Saturday, 4 June 2010

09.00-10.00 Use kinetic energy in microscope dentistry.

Peter Kotschy, MD, DDS, general dentist, specialized on microscope dentistry and specialist for periodontology (A).

- Unit 1. Kinetic preparation in microscope dentistry: ergonomic approach, use of instruments for caries preparation, via direct and indirect vision, application of kinetic preparation with alumina grains.
- Unit 2. Microscope-controlled glass bead blasting for perfect root cleaning and micro-invasive pocket surgery: a contact free, least perceptible, minimal invasive treatment, performed strictly located in the infected periodontal pocket; as substitute for periodontal access-flap therapy.

10.00-10.45 Organizational ergonomics – reflections and guidelines.

Karin Hjalmers, PhD, Research fellow, DDS, (SE).

Overall job satisfaction: affected by both individual resources and work organization.

The patient relation: the core of dentistry.

Health and collegial relations in work life of dentists.

The dentist's decision authority and professional autonomy.

Achieving a sustainable working life.

10.45-11.15 Break and visit posters.

11.15-11.45 Ergonomic use of different data systems in relation with patient treatment.

Jari-Pekka Teräväinen, Export Manager, Dental Care Units Division and Osku Sundqvist, Digital Imaging and Applications. Digital imaging and Applications Division. Planmeca (SF).

Dealing with different kinds of patient data.

X-rays and Cone beam CT scanner.

Digital registration functioning dental unit.

Contact dental technician, e.g. digital impression taking.

11.45-12.15 **Possibilities of patient communication systems.**

Szilárd Varga. Product Manager Treatment Centers, Sirona (GE)

What is patient communication. Today's possibilities.

A look into the future.

12.15-13.00 Ergonomic design of instruments for root planning and scaling.

Karen Neiner, Vice President Periodontal Strategic Business Unit and Corporate Development, Hu-Friedy, (USA).

Form and construction of handles of instruments.

New instruments.

Development of functional tips to use from a correct posture.

13.00 Closing ceremony and lunch.
