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V4776

Ergonomics – Reduce or Eliminate Pain from Your Practice Day

Gordon J. Christensen, DDS, MSD, PhD

Materials Included:

C.E. Instruction Sheet Products List Clinician Responsible Goals & Objectives Overview Supplemental Materials AGD Post-Test

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PROGRAM

V4776 Ergonomics – Reduce or Eliminate Pain from Your Practice Day

CLINICIAN RESPONSIBLE:

Gordon J. Christensen, DDS, MSD, PhD

Founder and CEO, Practical Clinical Courses Senior Consultant & Previous CEO, CR Foundation Practicing Prosthodontist, Provo, Utah

GOALS & OBJECTIVES

At the completion of this video presentation, viewers should be able to:

- 1. Define the word ergonomics overall and as it relates to dentistry.
- 2. List the advantages of working in a good ergonomic environment.
- 3. List the commonly occurring health challenges of dental personnel.
- 4. Identify the worst ergonomic health challenge related to dental practice.
- 5. What are the major reasons for ergonomic health challenges?
- 6. List the ergonomic challenges that are beyond your control.
- 7. Discuss the seriousness of potential ergonomic health challenges for dental personnel.
- 8. List what you can do to improve ergonomics in your practice environment.
- 9. List several misconceptions concerning ergonomics in dentistry.
- 10. Compare the ergonomic effect of sitting vs. standing.
- 11. Discuss how to determine the height of countertops.
- 12. Discuss sink location in operatories.
- 13. Discuss the alternatives for operating lighting.
- 14. Discuss how and where to deliver radiation in your office.
- 15. Describe proper operating chair characteristics.
- 16. Describe proper posture while operating.
- 17. Describe clinician and assistant stools.
- 18. Describe proper position of the stools.
- 19. Discuss magnification in relation to ergonomics.
- 20. Discuss headlamps in relation to ergonomics.

OVERVIEW

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The primary purpose of this presentation is to alert dental personnel to the dangers of working in a nonergonomic environment and to change their behavior relative to their work environment and work habits. The following and other topics are included in the presentation:

- 1. Definition of ergonomics
- 2. Advantages of working in a good ergonomic environment
- 3. Commonly occurring health challenges for dental personnel
- 4. The worst challenge musculoskeletal disorders (MSD)
- 5. Reasons for health challenges
- 6. How serious are the health challenges for dental personnel?
- 7. Factors beyond your control
- 8. Your overall health
- 9. What can you do about ergonomics in your environment?
- 10. Misconceptions concerning ergonomics in dentistry
- 11. Move your body!
- 12. Sitting vs. standing
- 13. Designing your operatories around your body personalizing your operatories
- 14. Patient care delivery systems
- 15. Rear delivery
- 16. Side delivery
- 17. Over-the-patient delivery
- 18. Over-the-head delivery
- 19. Size of your operatories
- 20. Entry to your operatories
- 21. Fixed and removable countertop height
- 22. Sink locations
- 23. Operating lights
- 24. Radiation tube head
- 25. Patient chair characteristics
- 26. Patient positioning in the chair
- 27. Clinician stool
- 28. Your posture while operating
- 29. Assistant stool
- 30. Posture of your assistant
- 31. Four- and six-handed dentistry
- 32. Location of computer workstation and operatory monitors
- 33. Magnification loupes and microscopes
- 34. Headlamps

SUPPLEMENTAL MATERIALS

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- Park HS, Kim J, Roh HL, Namkoong S. Analysis of the risk factors of musculoskeletal disease among dentists induced by work posture. J Phys Ther Sci. 2015 Dec;27(12):3651-4. doi: 10.1589/jpts.27.3651. Epub 2015 Dec 28.
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- 3. Jodalli PS, Kurana S, Shameema, Ragher M, Khed J, Prabhu V. Posturedontics: How does dentistry fit you? J Pharm Bioallied Sci. 2015 Aug;7(Suppl 2):S393-7. doi: 10.4103/0975-7406.163463.
- 4. Bethany Valachi. 4 evidence-based strategies to save your dental career. Dental Products Report, Jul 2015. Web. 10 Feb 2016. <www.dentalproductsreport.com>.
- Shirzaei M, Mirzaei R, Khaje-Alizade A, Mohammadi M. Evaluation of ergonomic factors and postures that cause muscle pains in dentistry students' bodies. J Clin Exp Dent. 2015 Jul 1;7(3):e414-8. doi: 10.4317/jced.51909. eCollection 2015.
- Jessica Bosch. Ergonomic challenges Registered Dental Hygienist. PennWell Corporation, 2015. Web. 10 Feb. 2016. <www.rdhmag.com>.
- Steven White. Ergonomics...How does dentistry fit you? DentistryIQ. PennWell Corporation, 2015. Web. 10 Feb. 2016. <www.dentistryiq.com>.
- 8. Pîrvu C, Pătrascu I, Pîrvu D, Ionescu C. The dentist's operating posture ergonomic aspects. J Med Life. 2014 Jun 15;7(2):177-82. Epub 2014 Jun 25.
- Dable RA, Wasnik PB, Yeshwante BJ, Musani SI, Patil AK, Nagmode SN. Postural Assessment of Students Evaluating the Need of Ergonomic Seat and Magnification in Dentistry. J Indian Prosthodont Soc. 2014 Dec;14(Suppl 1):51-8. doi: 10.1007/s13191-014-0364-0. Epub 2014 May 4.
- 10. Gupta A, Bhat M, Mohammed T, Bansal N, Gupta G. Ergonomics in dentistry. Int J Clin Pediatr Dent. 2014 Jan;7(1):30-4. doi: 10.5005/jp-journals-10005-1229. Epub 2014 Apr 26.
- R Nutalapati, R Gaddipati, H Chitta, M Pinninti, and R Boyapati. Ergonomics in Dentistry and the Prevention of Musculoskeletal Disorders in Dentists. Internet Scientific Publications, LLC, 2013. Web. 10 Feb 2016. <www.ispub.com>.
- 12. Betty Finkbeiner. Ergonomics in the Dental Business Office. Crest Oral-B, Jan 6, 2011. Web. 10 Feb 2016. <www.dentalcare.com>.

SUPPLEMENTAL MATERIALS (CONT'D)

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- 13. Bethany Valachi. Positioning for Success in Dentistry: Ergonomic Guidelines for the Entire Dental Team. Posturedontics, LLC, 2010. Web. 10 Feb. 2016. <www.posturedontics.com>.
- 14. Hayes M, Cockrell D, Smith DR. A systematic review of musculoskeletal disorders among dental professionals. Int J Dent Hyg. 2009 Aug;7(3):159-65. doi: 10.1111/j.1601-5037.2009.00395.x.
- 15. Valachi, B. <u>Practice Dentistry Pain-Free</u>. Portland, Oregon: Posturedontics Press, 2008.
- 16. Evangelos Alexopoulos, Ioanna-Christina Stathi, and Fotini Charizani. Prevalence of musculoskeletal disorders in dentists. BioMed Central Ltd., 2004. Web. 10 Feb 2016. <www.biomedcentral.com>.
- 17. Mark Tholen. Dental Operatory Ergonomics or Saving Your Skeleton. Henry Schein Dental, n.d. Web. 10 Feb. 2016. <www.dentallearning.net>.

POST-TEST

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- 1. Ergonomics in dental operatories means:
 - a. selecting the most popular operatory design and adapting to it.
 - b. making sure that your operatories are about average size and shape recommended by experts.
 - c. analyzing your body size and work preferences and adapting operatories to these characteristics.
 - d. none of the above.
- 2. Which is the most commonly occurring physical problem for clinicians related to dental practice?
 - a. Neurological problems
 - b. Musculoskeletal disorders
 - c. Tumors
 - d. Cardiovascular disease
- 3. The movements to avoid while practicing are:
 - a. fingers only.
 - b. wrist and hand movements.
 - c. elbow movement in abduction.
 - d. none of the above.
- 4. The best overall dental operatory design was supported in this presentation to be:
 - a. side delivery.
 - b. rear delivery.
 - c. over-the-patient delivery.
 - d. none of the above.
- 5. The most adequate position for operating is:
 - a. unknown.
 - b. standing.
 - c. standing and sitting.
 - d. sitting.
- 6. The average measurement of a female arm from the shoulder girdle to the tip of the fingers is:
 - a. 21 inches.
 - b. 24 inches.
 - c. 27 inches.
 - d. 23 inches.
- 7. The distance suggested for the space from the head of the chair to the back wall was:
 - a. 21 inches.
 - b. 27 inches.
 - c. 24 inches.
 - d. 23 inches.

POST-TEST (CONT'D)

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- 8. Countertops, both fixed and movable, should be:
 - a. 27 inches.
 - b. variable and directly related to your body characteristics.
 - c. 23 inches.
 - d. none of the above.
- 9. Sink location on the clinician's side of the operatory should be:
 - a. at the head of the chair.
 - b. at the foot of the chair.
 - c. at the preference of the clinician.
 - d. halfway from the head to the foot of the chair.
- 10. To improve the ergonomics in your clinical office, you should:
 - a. evaluate the current level of ergonomics in your office.
 - b. go to other dental offices and observe their ergonomic characteristics.
 - c. decide which ergonomic characteristics of your office need to be improved.
 - d. make the changes necessary in your office.
 - e. all of the above.

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