PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen Career Development Program

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
References
AGD Post-Test

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PRACTICAL CLINICAL COURSES

Sources of Products Discussed in

V4776 Ergonomics – Reduce or Eliminate Pain from Your Practice Day

Presented by: Gordon J. Christensen, DDS, MSD, PhD

1. Loupes and Headlamps

Designs for Vision, Inc. 760 Koehler Avenue Ronkonkoma, NY 11779 (800)345-4009 (631)585-3300 www.designsforvision.com

2. Loupes and Headlamps

Orascoptic 3225 Deming Way Suite 190 Middleton, WI 53562 (800)369-3698 (608)831-2555 www.orascoptic.com

3. Loupes and Headlamps

SurgiTel 77 Enterprise Drive Ann Arbor, MI 48103 (800)959-0153 (734)996-9200 www.surgitel.com

4. Microscopes

Global Surgical Corporation 3610 Tree Court Industrial Blvd. St. Louis, MO 63122 (800)861-3585 (636)861-3388 www.globalsurgical.com

5. Microscopes

Zeiss USA One Zeiss Drive Thornwood, NY 10594 (800)442-4020 www.zeiss.com

6. Nomad Pro 2

KaVo Kerr Group/Aribex 11727 Fruehauf Drive Charlotte, NC 28273 (866)340-5522 www.kavokerrgroup.com

Product names, the products themselves, and company names change rapidly. Please contact the companies shown to confirm current information.

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PROGRAM

V4776 Ergonomics - Reduce or Eliminate Pain from Your Practice Day

CLINICIAN RESPONSIBLE:

Gordon J. Christensen, DDS, MSD, PhD CEO, Practical Clinical Courses 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

V4776 Ergonomics - Reduce or Eliminate Pain from Your Practice Day

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

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POST-TEST

V4776 Ergonomics - Reduce or Eliminate Pain from Your Practice Day

- 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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