

PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen
Career Development Program

C502A Pouring and Trimming Casts

Gordon J. Christensen, DDS, MSD, PhD

Materials Included

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Gordon J. Christensen
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Gordon J. Christensen
PRACTICAL CLINICAL COURSES
Sources of Products Discussed in
C502A Pouring and Trimming Casts
Presented by: Gordon J. Christensen, DDS, MSD, PhD

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|---|--|---|
| <p>1. ARTICULATORS
Waterpik Technologies
1730 East Prospect Road
Fort Collins, CO 80553-0001
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www.whipmix.com</p> <p>6. MICROSTONE
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(502)637-1451
www.whipmix.com</p> <p>7. MOUNTING STONE
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(502)637-1451
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P.O. Box 25214
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(800)547-1511
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www.almore.com</p> |
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Product names, the products themselves, and company names change rapidly. Please contact the companies shown to confirm current information.

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PROGRAM

C502A Pouring and Trimming Casts

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, participants should be able to accomplish the following:

1. List reasons for cast accuracy.
2. Describe the types of dental casts that are present.
3. List and describe the types of stones and plasters.
4. Describe methods to preserve accuracy in alginate impressions.
5. Discuss surfactants.
6. Describe trimming diagnostic casts, and draw the characteristics of properly trimmed maxillary and mandibular trimmed casts.
7. Describe trimming working casts.
8. Describe trimming opposing casts.
9. Describe trimming removable prosthodontic casts.
10. Describe the characteristics of an excellent cast.

OVERVIEW

Casts, or as they are often inappropriately called, models, are very poorly accomplished in most dental practices. There are many reasons why this is the case. Usually, the task of making alginate impressions and pouring casts is delegated to staff personnel, some of whom have little education on how to accomplish the task. Additionally, the cast is usually made in haste as there are so many other activities that seem to be more important. Accurate casts are extremely important in many aspects of dentistry. If casts are inaccurate, prostheses are inaccurate.

There are several types of stones and plasters available on the current marketplace. Usually, dental stone is the most desirable because it has the greatest strength and is the most wear resistant. Some dentists and technicians are not aware that certain stones expand significantly on setting; thereby creating inaccuracies in subsequent prostheses.

Trimming different types of casts requires some education and experience. Diagnostic casts are usually trimmed with geometric cuts described in this presentation, while trimming working casts is directly related to the location of the mucal buccal fold. Trimming removable prosthodontic casts follows the mucal buccal fold and leaves 2-3 millimeters of land area.

Casts should have the following characteristics: lack of internal bubbles, lack of external bubbles, lack of debris incorporated, hard and shiny surface, properly trimmed, and total reproduction of surfaces that have been impressed.

Accurate and well-made casts are not difficult if staff personnel are adequately educated to all characteristics of the technique.

REFERENCES

C502A Pouring and Trimming Casts

1. CHRISTENSEN, G.J. "Improving the Quality of Fixed Prosthodontic Services". JADA. Vol. 131, November 2000. Pp. 1631-1632.
2. CHRISTENSEN, G.J. "What Category of Impression Material is Best for Your Practice?". JADA. Vol. 128, July 1997. Pp. 1026-1028.
3. CHRISTENSEN, G.J. "Now is the Time to Change to Custom Impression Trays". JADA. Vol. 125, May 1994. Pp. 619-620.
4. CHRISTENSEN, G.J. "Complex Fixed and Implant Prosthodontics: Making Nearly Foolproof Impressions". JADA. Vol. 123, December 1992. Pp. 69-70.

POST-TEST

C502A Pouring and Trimming Casts

- 1. Dies should be poured in:
 - a. model stone.
 - b. densite.
 - c. laboratory plaster.
 - d. none of the above.

- 2. Diagnostic casts should be poured in:
 - a. model stone.
 - b. laboratory plaster.
 - c. quick-setting stone.
 - d. any of the above depending on the situation.

- 3. Typically, alginate impressions should be poured within:
 - a. one minute.
 - b. five minutes.
 - c. ten minutes.
 - d. doesn't matter.

- 4. Diagnostic casts should be trimmed:
 - a. in a characteristic geometric shape as described in this presentation.
 - b. in direct relation to the mucobuccal fold.
 - c. rectangular with longest surface on posterior of cast.
 - d. triangular.

- 5. Removable prosthodontic casts should be trimmed:
 - a. in a characteristic geometric shape as described in this presentation.
 - b. in direct relation to the mucobuccal fold.
 - c. doesn't matter.
 - d. none of the above.

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