The North Carolina State Board of Dental Examiners

Annual Report to

The Secretary of State, the Attorney General, The Office of State Budget and Management,

And

The Joint Legislative Administrative Procedure Oversight Committee

Submitted
October 29, 2020

The North Carolina State Board of Dental Examiners submits the following information as required by N.C. Gen. Stat. §93B-2.

Section 1: Board Members and Officers, August 2019 – July 2020

Dr. Merlin W. Young, President Post Office Box 2050 Wendell, NC 27591	**O (919) 365-7416** **FX (919) 365-7933**
Dr. Catherine Watkins, Sec/Treas. 201 Charlois Boulevard Winston-Salem, NC 27103	**O (336) 331-3541** **FX (336) 331-3619**
Dr. Millard W. Wester, III, Past-President 511 Ruin Creek Road, Suite 204 Henderson, NC 27536	**O (252) 492-1115** **FX (252) 492-8682**
Dr. Edward J. Clemons, Jr. 5011 Southpark Drive, Suite 110 Durham, NC 27713	**O (919) 361-9700** **FX (919) 361-9747**
Dr. Karen Lanier 203 Boulevard Street High Point, NC 27262	**Office (336) 889-5466**
Dr. Raleigh Wright, III 12450 Cleveland Road, Suite 203 Garner, NC 27529	**Office (919) 277-7959**
Ms. Nancy St. Onge, RDH 2000 Perimeter Park Drive, Suite 160 Morrisville, NC 27560	**Office (919) 678-8223**
Mr. Dominic Totman, Consumer Member 2000 Perimeter Park Drive, Suite 160 Morrisville, NC 27560	**Office (919) 678-8223**

Section 1(a): Total number of licensees as of 1 Oct. 2020

Dentists:	6779
Dental Hygienists:	8309

Section 2: Number of persons who applied for examination

The North Carolina State Board of Dental Examiners is a member of the American Dental Examination (ADEX) which has developed a clinical examination for dentistry and dental hygiene that is offered in 35 states and is accepted in 45. Candidates for dental/dental hygiene licensure do not apply or pay any examination fees directly to the North Carolina State Board Dental Examiners for admission to the examination. Several thousand graduates of dental and dental hygiene schools throughout the 35 member states are eligible to apply for licensure in NC upon passing the examination.

The ADEX clinical dental and dental hygiene examinations are offered by two regional testing agencies: The Council of Interstate Testing Agencies (CITA) and the Commission on Dental Competency Assessments (CDCA). Passing rates and other statistics from these two agencies are attached as Appendix A.

Section 3: The number refused examination

Applicants are not allowed to apply for the examination until all educational prerequisites are met. Therefore, no applicants were refused admission to either the CDCA or CITA dental and dental hygiene examinations.

Section 4: The number who took the examination

See latest reports from CITA and CDCA attached as Appendix A.

Section 5: Number to whom initial licenses were issued

In 2019, 316 applicants applied for a dental license in North Carolina. All 316 were granted a dental license. Two hundred ninety-seven [297] applicants applied for a dental hygiene license. All 297 were granted a dental hygiene license

Section 5(a): Number who failed the examination

See attached reports from the two regional testing agencies (CDCA and CITA) offering the ADEX dental and dental hygiene examinations. (Appendix A)

Section 6: Application for License by credentials

Licensure by credentials is the process through which licensees in other states may apply for a North Carolina license based on their experience and a safe practice record. No additional clinical examination is required for those who qualify. In 2019, 119 dentists and 97 dental hygienists from other states applied for licensure by credentials.

Section 7: License by Credentials Issued

In 2019, the Board licensed 119 dentists and 97 dental hygienists from other states through the credentialing process. No applicants for licensure by credentials were denied.

Section 7(a): Number of Official complaints involving licensed and unlicensed activity

295 complaints were received in 2019.

Section 7(b): Number of disciplinary actions against licensees or non-licensees, including injunctive relief.

16 Consent Orders entered
11 licensees suspended
9 licensees placed on probation
1 license was revoked
5 official reprimands issued
3 licensees summarily suspended

Section 8: Number of licenses suspended or revoked

Number of Licenses Suspended: 11
Number of Licenses Revoked: 1

Section 9: Licensees terminated for any reason other than failure to renew

No licensees were asked to retire or voluntarily surrender their license in 2019.

Section (9a): Number of applicants for a dental license: 316
Number granted a dental license: 316
Number of applicants for a dental hygiene license: 297
Number of applicants granted a dental hygiene license: 297

Section (9b): Number of applicants with a conviction record: 18
Number of applicants with a conviction record granted a license: 18
Number of applicants with a conviction recorded denied a license
For any reason: 0
Number of applicants denied a license because of a conviction: 0

Section (9c): Number of applicants with military training: 35
Number of applicants with military training granted a license: 35
Number of military applicants denied a license: 0
Summary of reasons for denial attached as Appendix B (if applicable).

Section (9d): Number of applicants who are military spouses: 8
Number of military spouse applicants granted a license: 8
Number of military spouse applicants denied a license: 0
Summary of reasons for denial attached as Appendix C (if applicable).

Section 10: Substance of any anticipated statutory amendment

The Board is considering what statutory changes would be necessary to facilitate the practice of teledentistry in North Carolina.

Section 11: Substance of any anticipated rule changes or adoption.

No substantive rule changes are anticipated.

Financial Reports were previously submitted directly from the audit firm of Bernard Robinson on or about April 30, 2020.

Respectfully submitted,

Bobby D. White
Chief Executive Officer

Appendix A

Reports from Regional Testing Agencies

CITA

M. W. Wester, III, D.D.S.
President
Isaac House, D.D.S.
Secretary
Renea Chapman, R.D.H.
Vice President
Conrad P. McVea, III, D.D.S.
Past President
Kevin Collins, D.D.S.
Treasurer

September 23, 2020

Greetings to Our Member State Boards,

The year 2020 has been a challenging year for all us! We have all had to think outside of the norm to keep things moving within our organizations. CITA would like to thank you for your willingness to work with our organization to help the 2020 Dental and Dental Hygiene Candidates achieve their goals. With the help of ADEX, CITA was able to administer a manikin exam in place of a live patient exam. We wanted to share the below pass rates for the manikin exam in comparison to the live patient pass rates. These numbers are for exams given only by CITA for 2020:

	Total Exams	Overall Pass Rate	Pass Patient	Pass Rate	Fail Patient	Pass Manikin	Pass Rate	Fail Manikin
DH	291	97%	0	0	0	281	97%	10
Dental								
Anterior Rest	625	92%	244	93%	17	328	90%	36
Posterior Rest	607	95%	253	96%	11	325	95%	18
Perio	365	94%	243	93%	17	101	96%	4
Prosth	467					398	85%	69
Endo	447					395	88%	52

In looking at the highlighted percentages, we see the manikin anterior tooth pass rate is 3% below the live patient and the manikin molar is about the same (1% below). We do not know what next year will bring but we hoped sharing these numbers with you would help your dental board in some of your tough decisions. The current plan is to give both manikin and live patient exams and restorative/perio exams, depending on what your state wants. CITA is always willing to work with your board in whatever capacity we are needed. If you have any questions, please let us know.

Stay safe,

Dr. Millard W. Wester, III

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Dental Hygiene Class of 2019 Statistics

January 2020

Dr. Stuart Blumenthal
Assistant Director of Examinations

Class of 2019

Computer Simulated Clinical Examination (CSCE OSCE)

Computer Simulated Clinical Examination (CSCE OSCE)

Mean Scores

Year	Score
2015	87
2016	87
2017	87
2018	88
2019	89

Computer Simulated Clinical Examination (CSCE OSCE) Performance Evaluation 2019

All candidates, as of July 31, 2019

Number of Items:	100
High Score (in percent):	99%
Low Score (in percent)	53%
Percent of Candidates Passed	97%
Mean Percentage Score:	89%

Spring 2019 Dental Hygiene First Attempt Pass Rate

Took Both Examinations Spring 2019, Current Graduates, as of July 31, 2019

Current Graduates

	Pass Rate
Computer Simulated Clinical Examination (CSCE OSCE)	97.26%

Patient Treatment
Clinical Examination

Spring 2019 Dental Hygiene First Attempt Pass Rate

Took Both Examinations Spring 2019, Current Graduates, as of July 31, 2019

Current Graduates

	Pass Rate
Patient Treatment Clinical Examination	90.67%

Patient Treatment

Most Common Errors Contributing to Failure

1. Calculus Removal
2. Calculus Detection

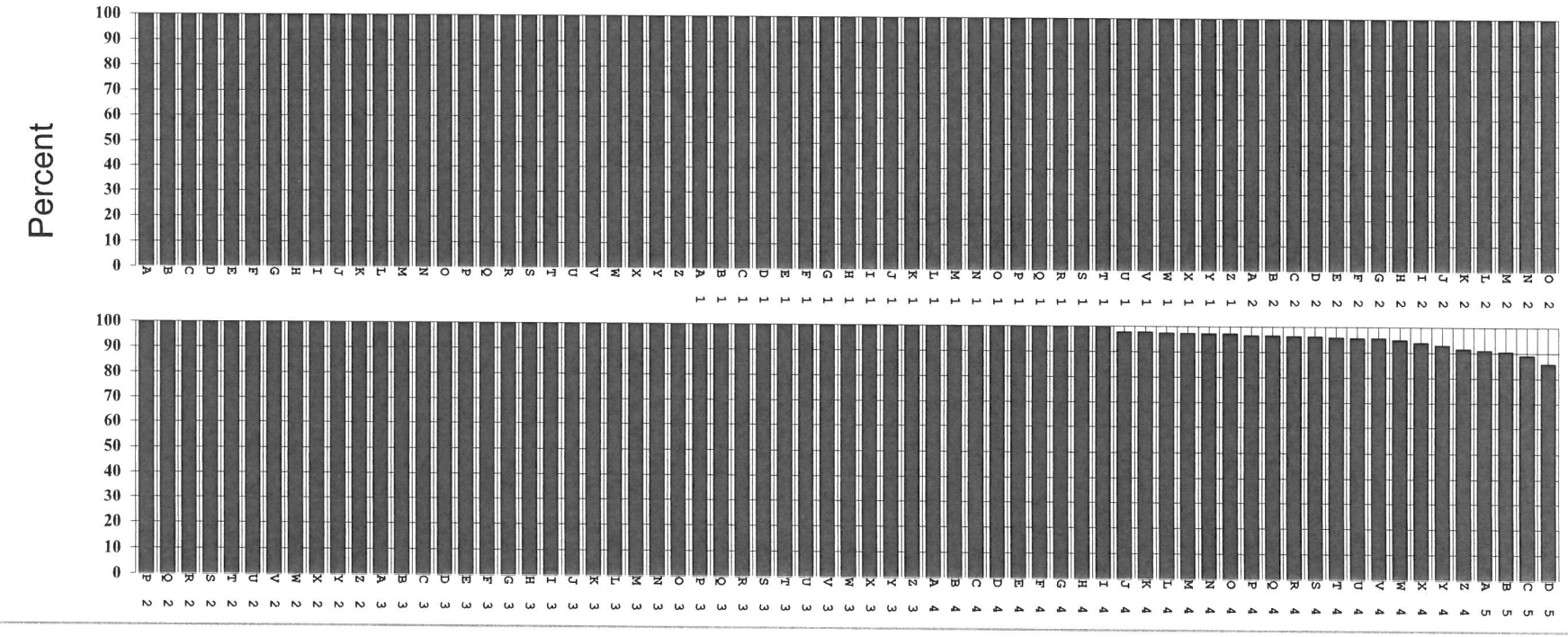
Dental Hygiene First and Final Pass Rate

Took Both Examinations by July 31, 2019
Graduated in 2019
Results as of December 31, 2019

Exam	First Time Pass Rate	Final Pass Rate
Computer Simulated Clinical Examination (CSCE OSCE)	97.26%	99.53%
Patient Treatment Clinical Examination	90.67%	99.56%

Dental Hygiene Overall Completed Pass Rate

Took Both Examinations by July 31, 2019
Graduated in 2019
Results as of December 31, 2019



Local Anesthesia Examination

Site: Prometric Testing Centers

Format: 50 multiple choice questions with 5 pilot questions

Topics Covered:

Anatomy and Neurophysiology
Pharmacology
Techniques
Topical Anesthetics
Infection Control
Prevention, Recognition, and Management of Complications

Local Anesthesia Examination

Initiated: November 21, 2002

Availability: Throughout USA and Canada

Candidates in 2019: 1,751

Overall Pass Rate: 97.09%

Nitrous Oxide Examination

Site: Prometric Testing Centers

Format: 50 multiple choice questions with 5 pilot questions

Topics Covered:

Concepts and management of pain and anxiety
Anatomy and physiology of respiration
Pharmacology of Nitrous Oxide
Medical assessment of the patient prior to using Nitrous Oxide
Administration of Nitrous Oxide
Management of complications and medical emergencies
Postoperative care of the patient

Nitrous Oxide Examination

Start-Up Date: January 2006

Availability: Throughout USA and Canada

Candidates in 2019: 496

Overall Pass Rate: 93.15%

ADEX Changes for 2020

Process Changes

- **If instruments are to be transported to and from the Evaluation area they must be in a closed, sealed, puncture-resistant container.**

Radiographic Changes

- **Radiographs will be considered diagnostic even if the apex of the distal root of an erupted 3rd molar is not included, as long as other diagnostic criteria are met.**

THE COMMISSION ON

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ASSESSMENTS

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Dental CIF Class of 2019 & 2020 Statistics

January 2020

Dr. Ellis Hall
Director of Examinations

Dental Simulated Examination (DSE OSCE)

Cumulative Pass/Fail Statistics for the Dental Simulated Examination (DSE OSCE) As of June 2019

- 3.41% of candidates did not utilize all available opportunities to complete the Dental Simulated Examination (DSE OSCE).

- 100.00% of all candidates utilizing all opportunities available to complete the examination process passed the DSE OSCE.

Dental Simulated Examination (DSE OSCE) Mean Scores

Year	Score
2015	85
2016	84
2017	85
2018	85
2019	88

Dental Simulated Examination (DSE OSCE) Overall Performance Evaluation

Number of Items	150
High Score (in percent)	99%
Low Score (in percent)	60%
Percent of Candidates Passed	98%
Mean Percentage Score	88%

Prosthodontics Examination

Prosthodontics Examination

93.24% of Candidates passed on their first attempt

Cumulative Pass/Fail Statistics for the Prosthodontics Examination As of June 2019

- 0.34% of candidates did not utilize all available opportunities to complete the Prosthodontics Examination.
- 99.96% of all candidates utilizing all opportunities available to complete the examination process passed the Prosthodontics Examination.

Most Common Errors Contributing to Failure

Cast Metal Crown

1. Occlusal Reduction
2. Axial Tissue Removal
3. Path of Insertion/Line of Draw

Most Common Errors Contributing to Failure

PFM Crown

1. Occlusal Reduction
2. Axial Tissue Removal
3. Margin Width

Most Common Errors Contributing to Failure

Ceramic Crown

1. Axial/Lingual Tissue Removal
2. Cervical Margin Width
3. Margin/Definition/Unbeveled

Endodontics Examination

Endodontics Examination

88.81% of Candidates passed on their first attempt

Cumulative Pass/Fail Statistics for the Endodontics Examination As of June 2019

- 0.71% of candidates did not utilize all available opportunities to complete the Endodontics Examination.
- 99.96% of all candidates utilizing all opportunities available to complete the examination process passed the Endodontics Examination.

Most Common Errors Contributing to Failure

Anterior Endodontic

1. Placement
2. Overfill / Underfill
3. Size

Most Common Errors Contributing to Failure

Posterior Endodontic

1. Perforation
2. Size
3. Placement

Anterior Restorative

Anterior Restorative Examination

95% of Candidates passed

on their first attempt

Cumulative Pass/Fail Statistics for the Anterior Restorative Examination As of June 2019

- 2.08% of candidates did not utilize all available opportunities to complete the Anterior Restorative Examination.
- 99.86% of all candidates utilizing all opportunities available to complete the examination process passed the Anterior Restorative Examination.

Most Common Errors Contributing to Failure

Composite Anterior Preparation

1. Caries
2. Unrecognized Exposure
3. Outline Extension

Most Common Errors Contributing to Failure

Composite Anterior Restoration

1. Interproximal Contact (open/irregular)
2. Margin Excess
3. Margin Deficiency

Posterior Restorative

Posterior Restorative Examination

95% of Candidates passed

on their first attempt

Cumulative Pass/Fail Statistics for the Posterior Restorative Examination As of June 2019

- 1.71% of candidates did not utilize all available opportunities to complete the Posterior Restorative Examination.
- 99.89% of all candidates utilizing all opportunities available to complete the examination process passed the Posterior Restorative Examination.

Most Common Errors Contributing to Failure

Composite Posterior Preparation

1. Caries
2. Gingival Contact
3. Adjacent Tooth Damage

Most Common Errors Contributing to Failure

Composite Posterior Restoration

1. Interproximal Contact (open/irregular)
2. Margin Excess
3. Margin Deficiency

Periodontal

Periodontal Examination

98% of Candidates passed

on their first attempt

Cumulative Pass/Fail Statistics for the Periodontal Examination As of June 2019

- 3.24% of candidates did not utilize all available opportunities to complete or elected to not take the Periodontal Examination

- 99.96% of all candidates utilizing all opportunities available to complete the examination process passed the Periodontal Examination.

Most Common Errors Contributing to Failure

Periodontal Examination

1. Calculus Detection/Removal
2. Case Acceptance

Cumulative Pass/Fail Statistics
As of June 2019

Used All Opportunities, CIF Candidates, Perio Optional

- 4.64% of candidates did not utilize all available opportunities to complete the examination process.
- 99.71% of all candidates utilizing all opportunities available to complete the examination process passed all parts of the examination.

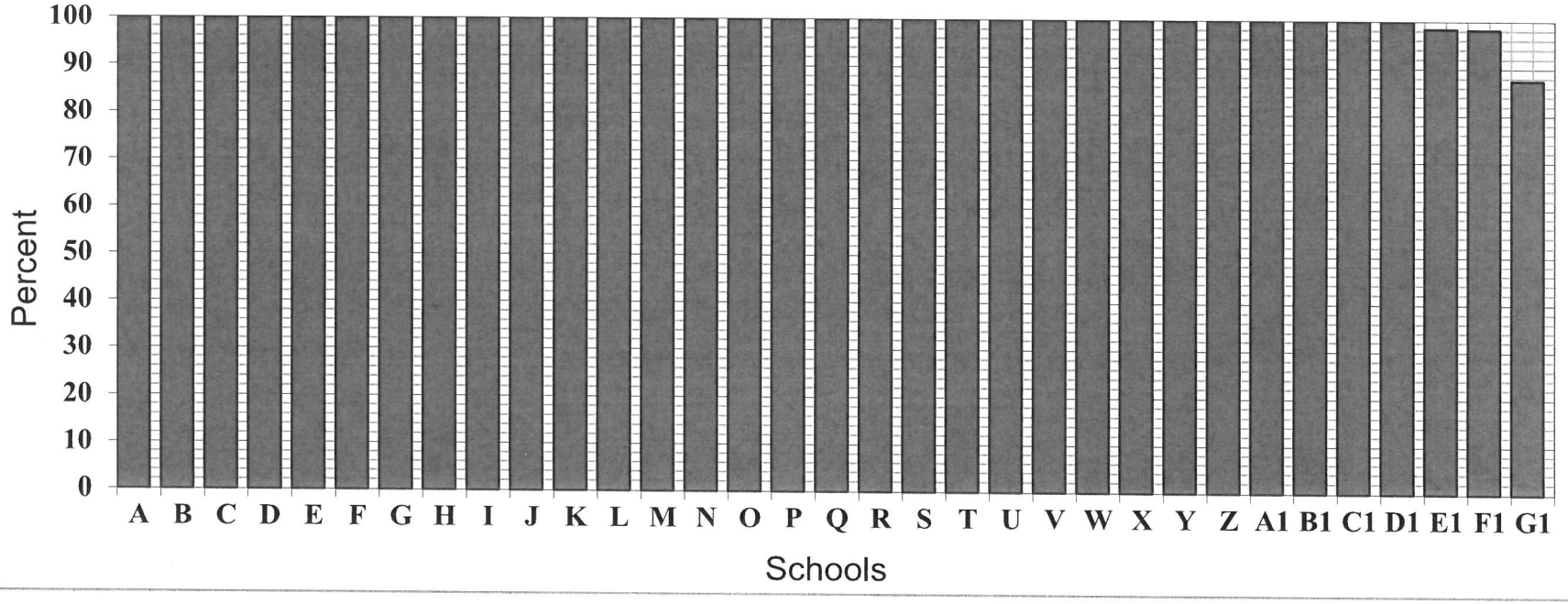
Cumulative Pass/Fail Statistics
As of June 2019

Used All Opportunities, CIF Candidates, Perio Optional

Examination	Percent Pass
DSE OSCE	100.00%
Endodontics	99.96%
Prosthodontics	99.96%
Anterior Restor.	99.86%
Posterior Restor.	99.71%

Cumulative Pass/Fail Statistics by School

Includes all examinees that used all opportunities to complete the examination from August 2018 – June 2019
Used All Opportunities, CIF Candidates, Perio Optional



CIF Class of 2020

Prosthodontics Examination

Prosthodontics Examination

First attempt:
92.07% of Candidates passed

Second attempt:
90.91% of Candidates passed

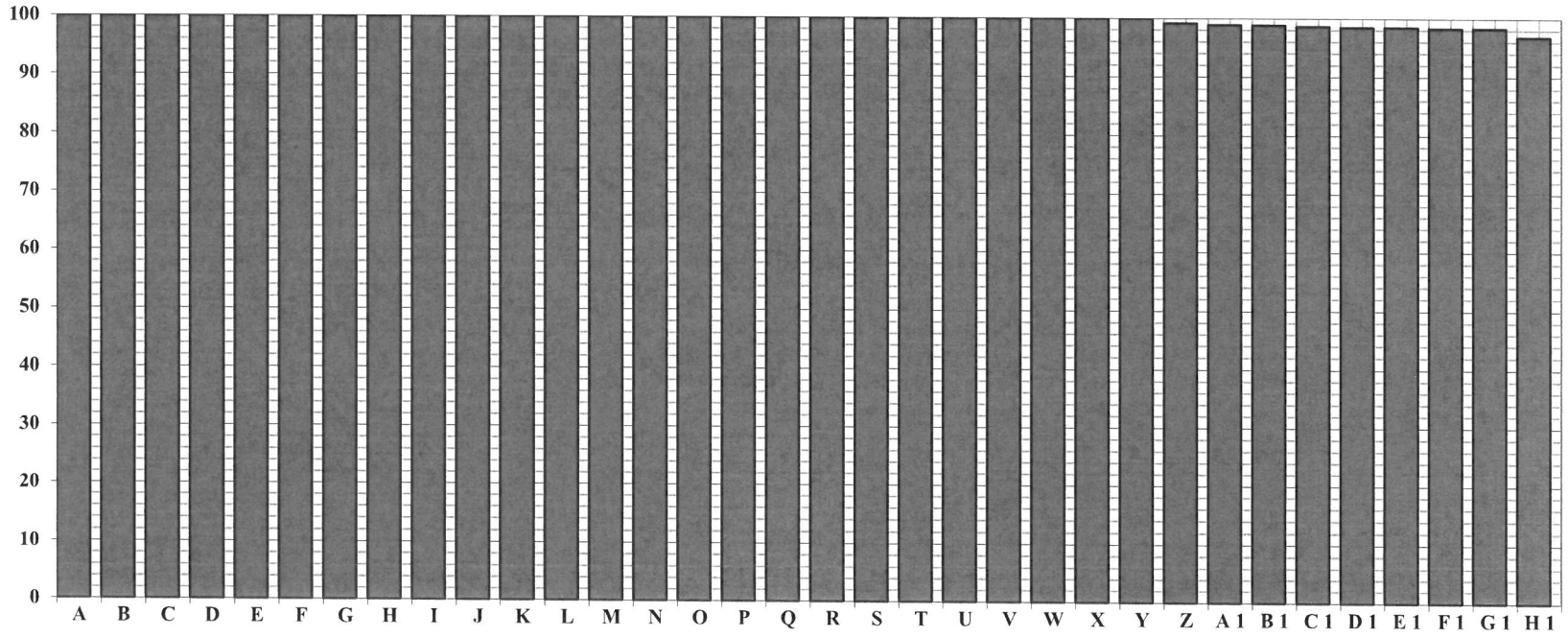
Prosthodontics Examination

Overall:
99.14% of Candidates passed
(that have used all opportunities as of December 2019)

CIF Class of 2020

Prosthodontics Overall Pass Rate

Used all opportunities, as of December 2018 exam series



Most Common Errors Contributing to Failure

Cast Metal Crown

1. Occlusal Reduction (under)
2. Axial Tissue Removal (under)
3. Path of Insertion/Line of Draw

Most Common Errors Contributing to Failure

PFM Crown

1. Occlusal Reduction (under)
2. Axial Walls Smoothness/Undercut
3. Axial Tissue Removal (over)

Most Common Errors Contributing to Failure

Ceramic Crown

1. Axial/Lingual Tissue Reduction (underprep)
2. Margin/Cervical Width (underprep)
3. External/Internal Line Angles

Endodontics Examination

Endodontics Examination

First attempt:
87.35% of Candidates passed

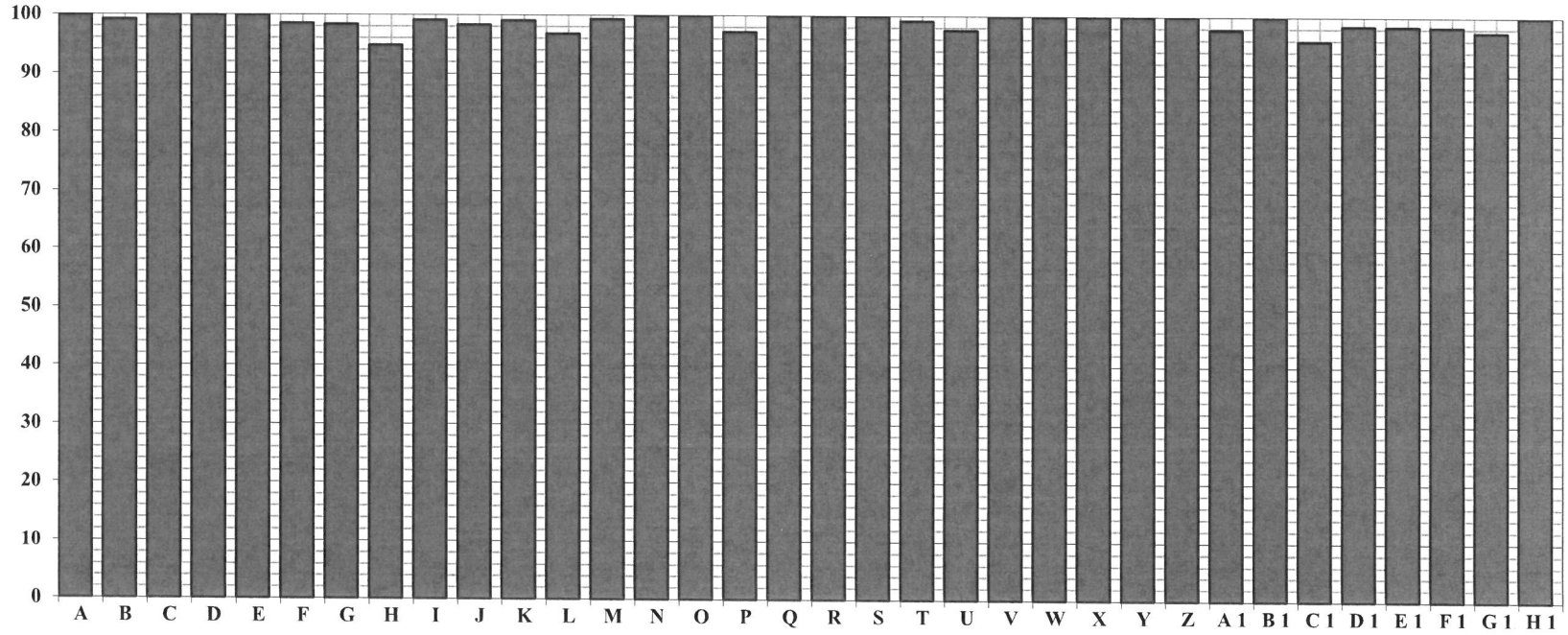
Second attempt:
85.71% of Candidates passed

Endodontics Examination

Overall:
98.61% of Candidates passed
(that have used all opportunities as of December 2019)

Endodontics Overall Pass Rate

Used all opportunities, as of December 2018 exam series



Most Common Errors Contributing to Failure

Anterior Endodontic

1. Size (pulp horn removal)
2. Size (from incisal)
3. Filled above CEJ

Most Common Errors Contributing to Failure

Posterior Endodontic

1. Perforation
2. Size
3. Placement

ADEX Changes for 2020

Process Changes

- If instruments are to be transported to and from the Evaluation area they must be in a closed, sealed, puncture-resistant container.
- A different container must be used for each patient.

Periodontal Changes

None

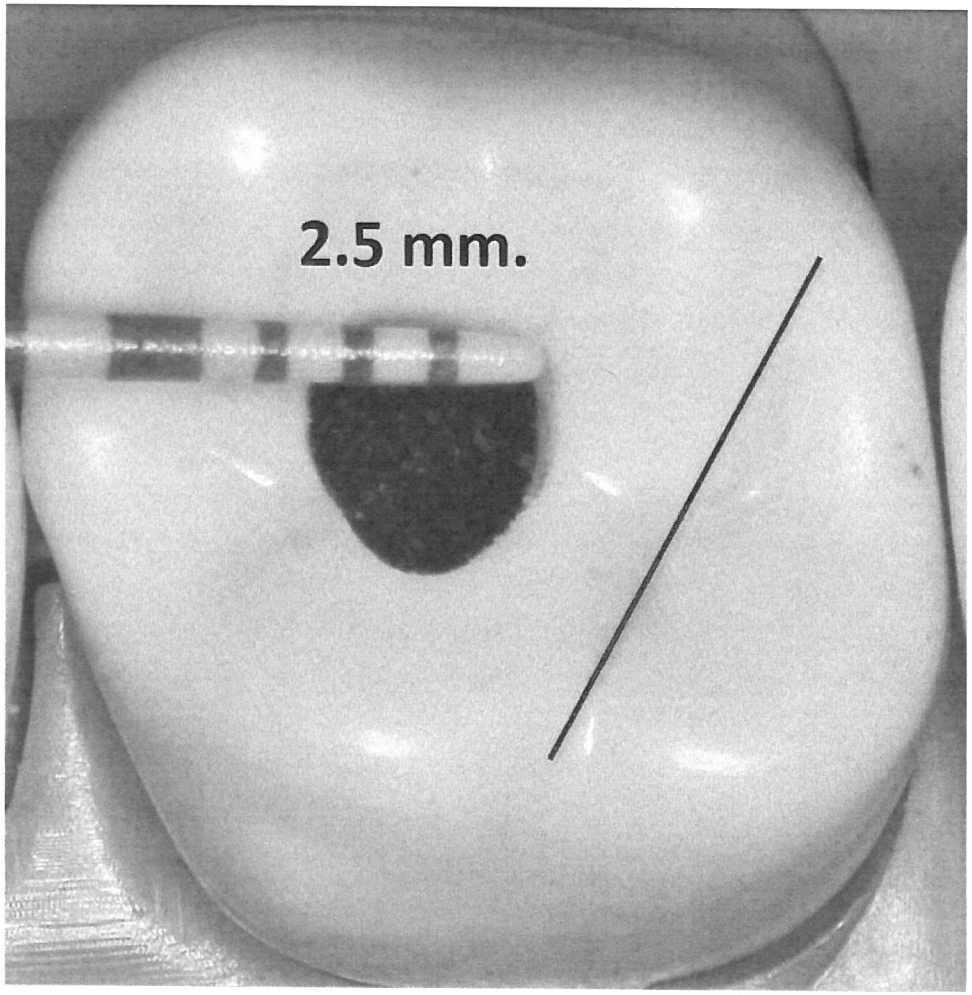
Restorative Changes

- Anterior Composite Prep requirement for gingival contact to be visually open, has been eliminated.
- Separate criteria, "Assigned carious lesions not accessed" and "Caries remaining in preparation" have been combined into "Caries not accessed and/or remains in the preparation".
- Internal Form Axial Wall Depth Criteria for maxillary centrals, maxillary cuspids and mandibular cuspids are at one depth and criteria for maxillary laterals and mandibular incisors are at a lesser depth.
- The DEF criterion for marginal decalicification for all preps has changed to "Explorer-penetrable decalcification remaining on the cavosurface margin".
- On the Anterior Composite Prep, the DEF for the prep being too small to manipulate and finish the restorative material has been eliminated.

Endodontic Changes

- DEF for under fill on the Anterior Endo Tooth is now 2 versus 3 mm short of the apex.
- Posterior Endo Access Opening too small DEF is now less than 2.5 mm mesio-distal and 2.5 mm bucco-lingual versus less than 2.5 mm x 3.0 mm.
- Posterior Endo Access Opening too large DEF is now less than 1 mm from the oblique groove versus less than 1 mm from the oblique ridge.

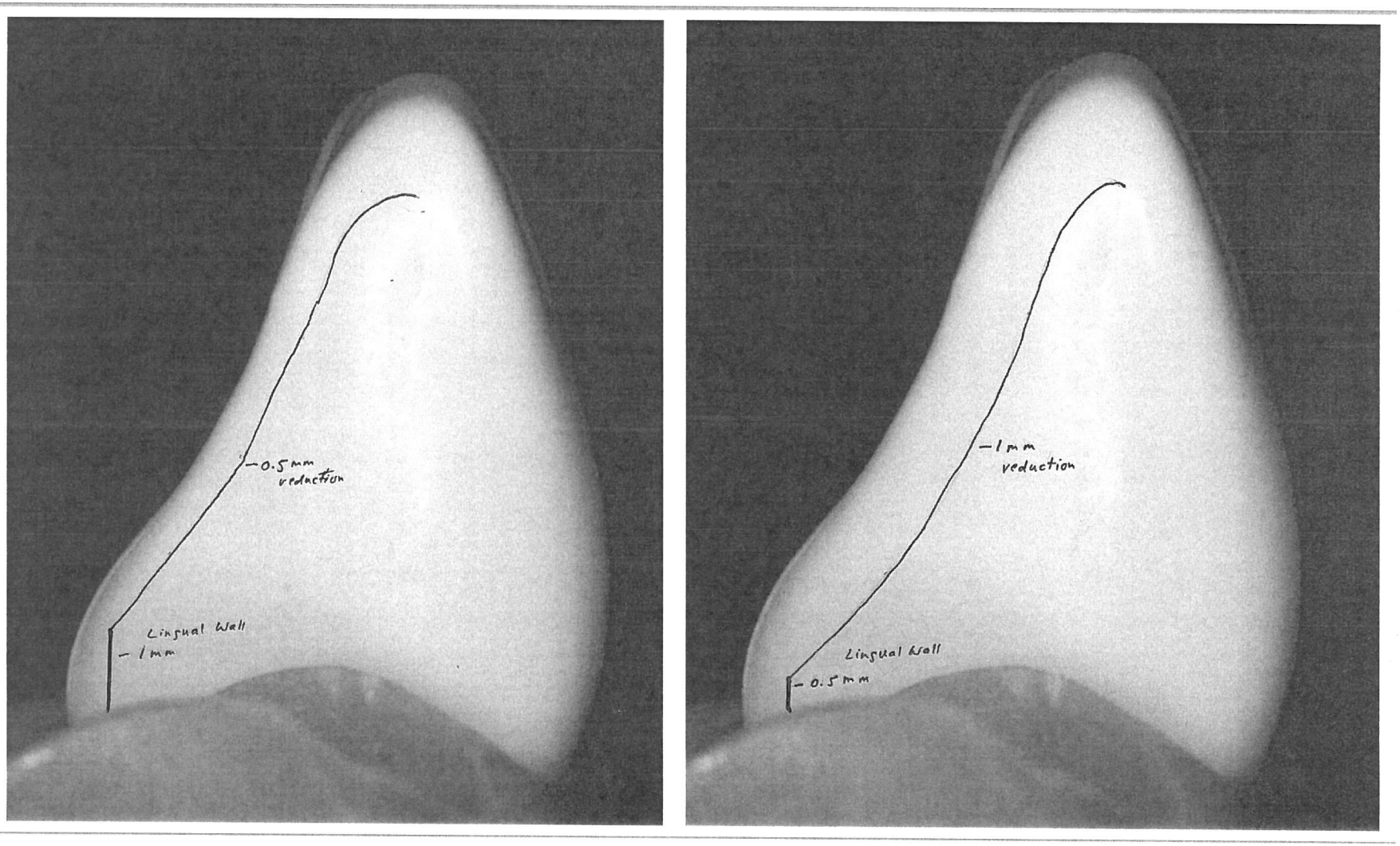
Endodontic Changes



Prosthodontic Changes

- Stents are now more appropriately called putty matrices.
- DEF for Occlusal Reduction on the Cast Metal Crown and PFM Crown are now less than 1 mm versus less than 0.5 mm
- DEF for Axial/Lingual Reduction on the Ceramic Crown Prep is now less than 1 mm versus less than 0.5 mm.

Axial/Lingual Reduction



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