

**The North Carolina State Board of Dental
Examiners**

Annual Report to

The Secretary of State, the Attorney General

And

**The Joint Legislative Administrative Procedure
Oversight Committee**

**Submitted
December 5, 2019**

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 2018 – July 2019

Dr. Millard W. Wester, III, President 511 Ruin Creek Road, Suite 204 Henderson, NC 27536	O (252) 492-1115 FX (252) 492-8682
Dr. Kenneth M. Sadler, Sec./Tres. 201 Charlois Boulevard Winston-Salem, NC 27103	O (336) 331-3500 FX (336) 331-3670
Dr. Merlin W. Young, Past-President Post Office Box 2050 Wendell, NC 27591	O (919) 365-7416 FX (919) 365-7933
Dr. William M. Litaker, Jr. 3070 11 th Avenue SE Hickory, NC 28602	O (828) 695-6623
Dr. Catherine Watkins 201 Charlois Boulevard Winston-Salem, NC 27103	O (336) 331-3541 FX (336) 331-3619
Dr. Edward J. Clemons, Jr. 5011 Southpark Drive, Suite 110 Durham, NC 27713	O (919) 361-9700 FX (919) 361-9747
Ms. Nancy St. Onge, RDH 600 Briarcliff Street Apex, NC 27502	O (919) 678-8223
Mr. Dominic Totman 8320 Falls of Neuse Rd, Ste 111 Raleigh, NC 27615	O (919) 678-8223

Section 1(a): Total number of licensees as of 1 Oct. 2019

Dentists:	6580
Dental Hygienists:	8301

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.

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 ADEX dental or CITA dental hygiene examinations.

Section 4: The number who took the examination

See latest attached reports from CITA and CDCA

Section 5: Number to whom initial licenses were issued

In 2018, 285 applicants applied for a dental license in North Carolina. All 285 were granted a dental license. Two hundred seventy-nine [279] applicants applied for a dental hygiene license. All 279 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.

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 2018, 62 dentists and 76 dental hygienists from other states applied for licensure by credentials.

Section 7: License by Credentials Issued

In 2018, the Board licensed 62 dentists and 76 dental hygienists from other states through the credentialing process. No one who applied for licensure by credentials was denied.

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

256 complaints were received in 2018.

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

7 Consent Orders entered
8 licensees suspended
7 licensees placed on probation
1 license was revoked
7 official reprimands issued
6 licensees summarily suspended

Section 8: Number of licenses suspended or revoked

Number of Licenses Suspended: 8
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 2018.

Section 10: Substance of any anticipated statutory amendment

The Board is considering what statutory changes would 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 28, 2018.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Bobby D. White", with a stylized flourish at the end.

Bobby D. White
Chief Executive Officer

Reports from Regional Testing Agencies




THE COMMISSION ON
DENTAL COMPETENCY
ASSESSMENTS

Class of 2018

Dental Hygiene

This information is confidential and proprietary to the CDOCA. It may not be disclosed or copied without the CDOCA's prior consent.

Dental Hygiene



Computer Simulated Clinical Examination
(CSCE OSCE)

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Dental Hygiene



Class of 2018

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Dental Hygiene



Computer Simulated Clinical Examination
(CSCE OSCE)
Mean Scores

Year	Score
2014	86
2015	87
2016	87
2017	87
2018	88

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Dental Hygiene



Computer Simulated Clinical Examination (CSCE OSCE) Performance Evaluation 2018

All candidates, as of June 30, 2018

Number of Items:	100
High Score (in percent):	99%
Low Score (in percent)	55%
Percent of Candidates Passed	97%
Mean Percentage Score:	88%

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Dental Hygiene



Patient Treatment Clinical Examination

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Dental Hygiene



Spring 2018 Dental Hygiene First Attempt Pass Rate

Took Both Examinations Spring 2018, Current Graduates, as of June 30, 2018

Current Graduates

Computer Simulated Clinical Examination (CSCE OSCE)	Pass Rate 98%
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Dental Hygiene



Spring 2018 Dental Hygiene First Attempt Pass Rate

Took Both Examinations Spring 2018, Current Graduates, as of June 30, 2018

Current Graduates

Patient Treatment Clinical Examination	Pass Rate 87%
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Patient Treatment

Most Common Errors Contributing to Failure

1. Calculus Removal
2. Calculus Detection

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Local Anesthesia Examination

Site: Prometric Testing Centers

Format: 50 multiple choice questions with 5 pilot questions

Topics Covered:

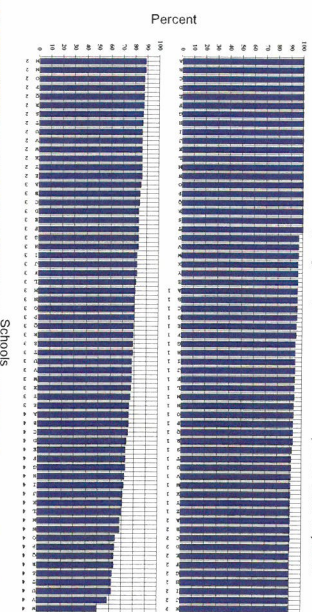
Anatomy and Neurophysiology
Pharmacology
Techniques
Topical Anesthetics
Infection Control
Prevention, Recognition, and Management of Complications

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Overall First Attempt Pass Rate Spring 2018

Took Both Examinations Spring 2018, Current Graduates, as of June 30, 2018



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Local Anesthesia Examination

Initiated: November 21, 2002

Availability: Throughout USA and Canada

Candidates in 2018: 1268 (as of June 30, 2018)

Overall Pass Rate: 86%

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Dental Hygiene



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

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Dental Hygiene



Nitrous Oxide Examination

Start-Up Date: January 2006

Availability: Throughout USA and Canada

Candidates in 2016: 354 (as of June 30, 2018)

Overall Pass Rate: 89%

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THE COMMISSION ON
DENTAL COMPETENCY
ASSESSMENTS



CIF Class of 2018 Dental Results

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CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics for the Dental Simulated Examination (DSE OSCE) As of June 2018

- 2.65% 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.

THE COMMISSION ON DENTAL COMPETENCY ASSESSMENTS

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CIF Class of 2018 Examination



Dental Simulated Examination (DSE OSCE)

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CIF Class of 2018 Examination



Dental Simulated Examination (DSE OSCE) Mean Scores

Year	Score
2014	85
2015	85
2016	84
2017	85
2018	85

THE COMMISSION ON DENTAL COMPETENCY ASSESSMENTS

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CIF Class of 2018 Examination



Dental Simulated Examination (DSE OSCE) Overall Performance Evaluation

Number of Items	150
High Score (in percent)	99%
Low Score (in percent)	59%
Percent of Candidates Passed	96%
Mean Percentage Score	85%

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CIF Class of 2018 Examination



Prosthodontics Examination
89% of Candidates passed
on their first attempt

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CIF Class of 2018 Examination



Prosthodontics Examination

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CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics for the Prosthodontics Examination As of June 2018

- 0.47% of candidates did not utilize all available opportunities to complete the Prosthodontics Examination.
- 99.84% of all candidates utilizing all opportunities available to complete the examination process passed the Prosthodontics Examination.

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CIF Class of 2018 Examinations



Most Common Errors Contributing to Failure

Cast Metal Crown

1. Occlusal Reduction
2. Path of Insertion/Line of Draw
3. Margin Definition

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CIF Class of 2018 Examinations



Most Common Errors Contributing to Failure

Ceramic Crown

1. Axial Lingual Tissue Removal
2. Cervical Margin Width
3. External Line Angles

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CIF Class of 2018 Examinations



Most Common Errors Contributing to Failure

PFM Crown

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

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CIF Class of 2018 Examination



Endodontics Examination

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CIF Class of 2018 Examination



Endodontics Examination

85% of Candidates passed
on their first attempt

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CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics for the Endodontics Examination As of June 2018

- 0.67% of candidates did not utilize all available opportunities to complete the Endodontics Examination.
- 99.72% of all candidates utilizing all opportunities available to complete the examination process passed the Endodontics Examination.

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CIF Class of 2018 Examinations



Most Common Errors Contributing to Failure

Anterior Endodontic

1. Size
2. Fill above CEJ
3. Overfill / Underfill

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CIF Class of 2018 Examinations



Most Common Errors Contributing to Failure

Posterior Endodontic

1. Size
2. Perforation
3. Placement

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CIF Class of 2018 Examination



Anterior Restorative

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CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics for the Anterior Restorative Examination As of June 2018

- 1.78% of candidates did not utilize all available opportunities to complete the Anterior Restorative Examination.
- 99.80% of all candidates utilizing all opportunities available to complete the examination process passed the Anterior Restorative Examination.

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CIF Class of 2018 Examination



Anterior Restorative Examination

94% of Candidates passed
on their first attempt

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CIF Class of 2018 Examination



Most Common Errors Contributing to Failure

Composite Anterior Preparation

1. Caries
2. Gingival Contact
3. Adjacent Tooth Damage
4. Outline Extension

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CIF Class of 2018 Examination



Most Common Errors Contributing to Failure

Composite Anterior Restoration

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

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CIF Class of 2018 Examination



Posterior Restorative Examination

93% of Candidates passed
on their first attempt

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CIF Class of 2018 Examination



Posterior Restorative

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CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics for the Posterior Restorative Examination As of June 2018

- 1.34% of candidates did not utilize all available opportunities to complete the Posterior Restorative Examination.
- 99.64% of all candidates utilizing all opportunities available to complete the examination process passed the Posterior Restorative Examination.

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CIF Class of 2018 Examination



Most Common Errors Contributing to Failure

Composite Posterior Preparation

1. Caries
2. Gingival Contact
3. Adjacent Tooth Damage
4. Pulpal Floor (under)

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CIF Class of 2018 Examination



Periodontal

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CIF Class of 2018 Examination



Most Common Errors Contributing to Failure

Composite Posterior Restoration

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

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CIF Class of 2018 Examination



Periodontal Examination

98% of Candidates passed
on their first attempt

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CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics for the Periodontal Examination As of June 2018

- 4.31% 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.

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CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics As of June 2018

Used All Opportunities, CIF Candidates, Perio Optional

- 4.07% of candidates did not utilize all available opportunities to complete the examination process.
- 99.22% of all candidates utilizing all opportunities available to complete the examination process passed all parts of the examination.

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CIF Class of 2018 Examination



Most Common Errors Contributing to Failure

Periodontal Examination

1. Calculus Detection/Removal
2. Case Acceptance

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CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics As of June 2018

Used All Opportunities, CIF Candidates, Perio Optional

Examination	Percent Pass
DSE OSCE	100.00%
Endodontics	99.72%
Prosthodontics	99.84%
Anterior Restor.	99.80%
Posterior Restor.	99.64%

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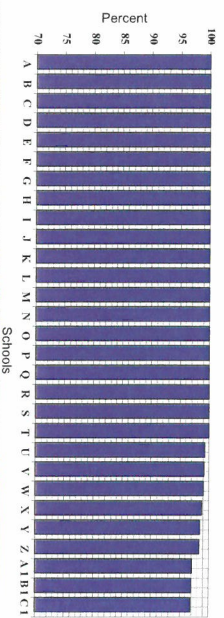
CIF Class of 2018 Examination



Cumulative Pass/Fail Statistics by School

Includes all examinees that used all opportunities to complete the examination from August 2017 – June 2018

Used All Opportunities, CIF Candidates, Perio Optional



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CITA

2017 CITA-ADMINISTERED ADEX EXAM PROCEDURE ATTEMPT STATISTICS

***All results compiled from exams administered between 1 JAN 2017 and 31 DEC 2017**

Anterior Restorative

Total Procedure Attempts:	551
Total Passes:	511
Total Failures:	40
Overall Pass Rate:	93%

Total candidates: 567, 16 exam not taken

Prosthodontic

Total Procedure Attempts:	694
Total Passes:	537
Total Failures:	157
Overall Pass Rate:	77%

Posterior Restorative

Total Procedure Attempts:	544
Total Passes:	511
Total Failures:	33
Overall Pass Rate:	94%

Total candidates: 562, 18 exam not taken

Endodontic

Total Procedure Attempts:	657
Total Passes:	548
Total Failures:	109
Overall Pass Rate:	83%

Periodontal

Total Procedure Attempts:	509
Total Passes:	492
Total Failures:	17
Overall Pass Rate:	97%



CITA

2017 ADEX DENTAL HYGIENE EXAMINATION

All results compiled from exams administered between 1 JAN 2017 and 31 DEC 2017

Patient Treatment Clinical Examination		
	DH only	DH & ADHP
Total Procedure Attempts:	496	669
Total Passes:	419	554
2017 1st Attempt Passes:	358	459
2017 2nd or 3rd Attempt Passes:	61	95
Total Failures:	74	111
2017 1st attempt failure, not retaken in 2017:	1	3
2017 1st attempt failure, passed 2nd attempt in 2017:	54	88
2017 1st attempt failure, failed 2nd attempt in 2017:	10	11
2017 2nd attempt failure, passed 3rd attempt in 2017:	7	7
2017 2nd attempt failure, failed 3rd attempt in 2017:	2	2
Overall Pass Rate:	84%	83%
* 2017 2nd attempt failure, no 3rd attempt in 2017:	1	2