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 October 26, 2017

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 2016 – July 2017

Dr. William M. Litaker, Jr., President 270 Third Avenue NW Hickory, NC 28601	O (828) 327-8136 FX (828) 327-7106
Dr. Merlin W. Young, Sec-Treas. Post Office Box 2050 Wendell, NC 27591	O (919) 365-7416 FX (919) 365-7933
Dr. Clifford O. Feingold, Past-President 4 Stuart Circle Asheville, NC 28804	O (828) 258-8390
Dr. Stanley L. Allen 706 Summit Avenue Greensboro, NC 27405	O (336) 378-1150 FX (336) 273-7110
Dr. Millard W. Wester, III 511 Ruin Creek Road, Suite 204 Henderson, NC 27536	O (252) 492-1115 FX (252) 492-8682
Dr. Kenneth M. Sadler 201 Charlois Boulevard Winston-Salem, NC 27103	O (336) 331-3500 FX (336) 331-3504
Ms. Carla J. Stack, RDH 14450 Adair Manor Court Charlotte, NC 28277	O (704) 540-2255 FX (704) 542-7281
Mr. Dominic Totman Post Office Box 91476 Raleigh, NC 27675	O: (919) 678-8223

Section 1(a): Total number of licensees as of 30 Sept. 2017

Dentists:

6,163

Dental Hygienists:

8,039

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 directly to the Board 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 attached reports from CITA and CDCA

Section 5: Number to whom initial licenses were issued

In 2016, 230 applicants applied for a dental license in North Carolina. All 230 were granted a dental license. Two hundred thirty six [236] applicants applied for a dental hygiene license. All 236 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 examination.

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 2016, 57 dentists and 75 dental hygienists from other states applied for licensure by credentials.

Section 7: License by Credentials Issued

In 2016, the Board licensed 55 dentists and 74 dental hygienists from other states through the credentialing process. Two dentists and one dental hygienist who applied for licensure by credentials were denied.

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

248 complaints were received and investigated in 2016.

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

22 Consent Orders entered

15 licensees suspended

15 licensees placed on probation

3licenses were revoked

6 official reprimands issued

8 licensees summarily suspended

0 injunctions against unauthorized practice

Section 8: Number of licenses suspended or revoked

Number of Licenses Suspended:

15

Number of Licenses Revoked:

3

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

Two [2] licensee were asked to retire or voluntarily surrender their license.

Section 10: Substance of any anticipated statutory amendment

None

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

The Board anticipates submitting all of its rules to the Rules Review Commission for review and re-adoption or elimination pursuant to the requirements of N.C. Gen. Stat. 150B-21.3A.

Financial Reports were previously submitted directly from the audit firm of Bernard Robinson on or about April 28, 2017.

Respectfully submitted,

Bobby D. White

Chief Operations Officer

Reports from Regional Testing Agencies



2016 CITA-ADMINISTERED ADEX DENTAL EXAM PROCEDURE ATTEMPT STATISTICS

*All results compiled from exams administered between 1 JAN 2016 and 31 DEC 2016

Anterior Restorative		
Total Procedure Attempts:	578	
Total Passes:	553	
Total Failures:	25	
Overall Pass Rate:	96%	

Posterior Restorative		
Total Procedure Attempts:	585	
Total Passes:	553	
Total Failures:	32	
Overall Pass Rate: 9		

Periodontal		
Total Procedure Attempts:	530	
Total Passes:	516	
Total Failures:	14	
Overall Pass Rate:	97%	

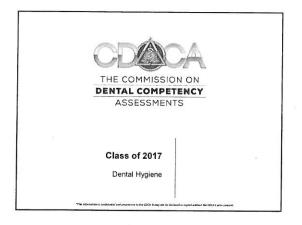
Prosthodontic	
Total Procedure Attempts:	685
Total Passes:	580
Total Failures:	86
Overall Pass Rate:	85%

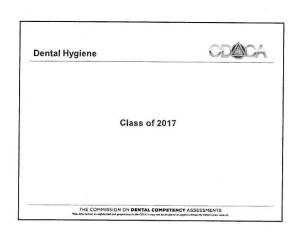
Endodontic		
Total Procedure Attempts:	653	
Total Passes:	571	
Total Failures:	82	
Overall Pass Rate:	87%	

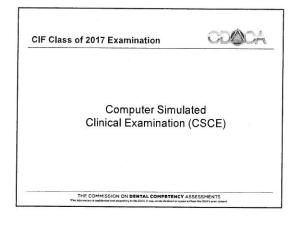
© CITA 2016 CITA DENTAL HYGIENE EXAMINATION STATISTICS									
School	State	Exam Type	Total Attempts	2016 Graduate First-attempt Pass	2016 Graduate First-attempt Fail Second-attempt Pass ³	Past Graduate 2015 First-attempt Fail 2015 Retake attempt Fail 2016 Retake attempt Pass	2016 Graduate First-attempt Fail Second-attempt Fail	2016 Graduate First-attempt Fail No Second-attempt through CITA	Past Graduate First-attempt Fail No Retake attempt through CITA
Total NC Cadidates	NC	DH	228	211	9 (1 3)	2 1	2	3	1 2

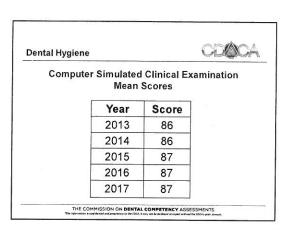
 $^{^1 \}mbox{School}$ had one candidate who was unsuccessful twice in 2015

² School had one candidate who passed original exam in 1978 ³ Second attempt was the CITA exam









Dental Hygiene



Computer Simulated Clinical Examination Performance Evaluation 2017 All candidates, as of June 24, 2017

Number of Items:	100
High Score (in percent):	99%
Low Score (in percent)	62%
Percent of Candidates Passed	96%
Mean Percentage Score:	87%

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Dental Hygiene



Spring 2017 Dental Hygiene First Attempt Pass Rate Took Both Examinations Spring 2017, Current Graduates, as of June 24, 2017

Current Graduates

	Pass Rate
Computer Simulated Clinical Examination	97%

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CIF Class of 2017 Examination



Patient Treatment Clinical Examination

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Dental Hygiene



Spring 2017 Dental Hygiene First Attempt Pass Rate
Took Both Examinations Spring 2017, Current Graduates, as of June 24, 2017

Current Graduates

	Pass Rate
Patient Treatment Clinical Examination	89%

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Dental Hygiene

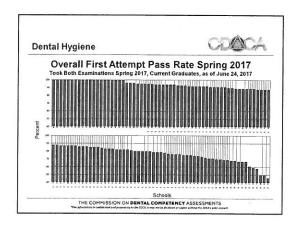


Patient Treatment

Most Common Errors Contributing to Failure

- Calculus Removal
- Calculus Detection

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Dental Hygiene



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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Dental Hygiene



Local Anesthesia Examination

Initiated: November 21, 2002

Availability: Throughout USA and Canada

Candidates in 2016: 1099 (as of June 24, 2017)

Overall Pass Rate: 98%

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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: 303 (as of June 24, 2017)

Overall Pass Rate: 93%

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CIF Class of 2017 Dental Results

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CIF Class of 2017 Examination



Dental Simulated Examination (DSE)

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CIF Class of 2017 Examination



Cumulative Pass/Fail Statistics for the Dental Simulated Examination (DSE) As of June 2017

- 3.80% of candidates did not utilize all available opportunities to complete the Dental Simulated Examination (DSE).
- 99.63% of all candidates utilizing all opportunities available to complete the examination process passed the DSE.

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Dental Simulated Examination (DSE) Mean Scores

Year	Score
2013	84
2014	85
2015	85
2016	84
2017	85

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Dental Simulated Examination (DSE) Overall Performance Evaluation

Number of Items	150
High Score (in percent)	99%
Low Score (in percent)	62%
Percent of Candidates Passed	95%
Mean Percentage Score	85%

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CIF Class of 2017 Examination



Prosthodontics Examination

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CIF Class of 2017 Examination



Prosthodontics Examination

83% of Candidates passed on their first attempt

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CIF Class of 2017 Examination



Cumulative Pass/Fail Statistics for the Prosthodontics Examination As of June 2017

- 0.83% of candidates did not utilize all available opportunities to complete the Prosthodontics Examination.
- 99.64% of all candidates utilizing all opportunities available to complete the examination process passed the Prosthodontics Examination.

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Most Common Errors Contributing to Failure

Cast Metal Crown

Occlusal Reduction Axial Tissue Removal Axial Walls Smoothness/Undercut

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CIF Class of 2017 Examinations



Most Common Errors Contributing to Failure

PFM Crown

Axial Tissue Removal Occlusal Reduction Axial Walls Smoothness/Undercuts

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CIF Class 2017 Examinations



Most Common Errors Contributing to Failure

Ceramic Crown

Axial Tissue Removal/Lingual Clearance Axial Walls Smoothness/Undercut Margin/Definition/Unbeveled

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Endodontics Examination

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Endodontics Examination

84% of Candidates passed on their first attempt

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CIF Class of 2017 Examination



Cumulative Pass/Fail Statistics for the Endodontics Examination As of June 2016

- 0.83% of candidates did not utilize all available opportunities to complete the Endodontics Examination.
- 99.92% of all candidates utilizing all opportunities available to complete the examination process passed the Endodontics Examination.

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CIF Class of 2017 Examinations



Most Common Errors Contributing to Failure

Anterior Endodontic

Size Overfill/Underfill Internal Form

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CIF Class of 2017 Examinations



Most Common Errors Contributing to Failure

Posterior Endodontic

Size Perforated Placement

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Anterior Restorative

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Anterior Restorative Examination

92% of Candidates passed on their first attempt

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CIF Class of 2017 Examination



Cumulative Pass/Fail Statistics for the Anterior Restorative Examination As of May 2016

- · 2.06% 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 2017 Examination



Most Common Errors Contributing to Failure

Composite Anterior Preparation

- Caries/Remaining Material
 Gingival Contact
- 3. Outline Extension



Most Common Errors Contributing to Failure

Composite Anterior Restoration

- 1. Interproximal Contact
- 2. Margin Excess/Deficiency

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Posterior Restorative

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Posterior Restorative Examination

94% of Candidates passed on their first attempt

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CIF Class of 2017 Examination



Cumulative Pass/Fail Statistics for the Posterior Restorative Examination As of June 2017

- 1.50% of candidates did not utilize all available opportunities to complete the Posterior Restorative Examination.
- 99.68% of all candidates utilizing all opportunities available to complete the examination process passed the Posterior Restorative Examination.

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Most Common Errors Contributing to Failure

Composite Posterior Box Preparation

- 1. Caries/Remaining Material
- 2. Adjacent Tooth Damage

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CIF Class of 2017 Examination



Most Common Errors Contributing to Failure

Composite Posterior Box Restoration

- 1. Interproximal Contact
- 2. Margin Excess/Deficiency

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Most Common Errors Contributing to Failure

Composite Posterior Conventional Preparation

- Caries/Remaining Material
 Adjacent Tooth Damage
- 3. Pulpal Floor

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CIF Class of 2017 Examination



Most Common Errors Contributing to Failure

Composite Posterior Conventional Restoration

- Interproximal Contact
 Margin Excess/Deficiency

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Most Common Errors Contributing to Failure

Amalgam Preparation

- 1. Caries Remaining/Material
- 2. Pulpal Floor

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CIF Class of 2017 Examination



Most Common Errors Contributing to Failure

Amalgam Restoration

- 1. Interproximal Contact
- 2. Margin Excess/Deficiency

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CIF Class of 2017 Examination



Periodontal

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CIF Class of 2017 Examination



Periodontal Examination

98% of Candidates passed on their first attempt

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Cumulative Pass/Fail Statistics for the Periodontal Examination As of June 2017

- 4.75% of candidates did not utilize all available opportunities to complete or elected to not take the Periodontal Examination
- 99.79% of all candidates utilizing all opportunities available to complete the examination process passed the Periodontal Examination.

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CIF Class of 2017 Examination



Most Common Errors Contributing to Failure

Periodontal Examination

- 1. Calculus Detection/Removal
- 2. Case Acceptance

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CIF Class of 2017 Examination



Cumulative Pass/Fail Statistics As of June 2017

Used All Opportunities, CIF Candidates, Perio Optional

- 5.62% of candidates did not utilize all available opportunities to complete the examination process.
- 99.16% 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 2017 Examination



Cumulative Pass/Fail Statistics As of June 2017

Used All Opportunities, CIF Candidates, Perio Optional

Examination	Percent Pass
DSE	99.63%
Endodontics	99.92%
Prosthodontics	99.64%
Anterior Restor.	99.80%
Posterior Restor.	99.68%

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