The Canadian Experience
With Reciprocal Agreements
Based on Accreditation
10 Canadian Dental Schools

- Dalhousie University
- Université Laval
- McGill University
- Université de Montréal
- University of Toronto
- University of Western Ontario
- University of Manitoba
- University of Saskatchewan
- University of Alberta
- University of British Columbia
10 Provincial Licensing Authorities
1952 Act of Parliament

- Establishing qualifying conditions for a national standard of competence for general dental practitioners
- Issuing certificates to dentists who meet the standard.
NDEB of Canada

12 Board Members
- 1 appointed by each of 10 Provincial Boards
- 2 approved by Commission on Dental Accreditation
Accreditation

• Accreditation administered by Commission on Dental Accreditation of Canada
• NDEB and Provincial Dental Regulatory Authorities actively involved and financially support
• Defined by Supreme Court Judgement
  - in depth, bonafide, ongoing
  - allowed to discriminate between groups based on accreditation
Accreditation

- Verifies that all graduates meet a minimum standard including evaluation of clinical skills
- Confidence and trust in competency of graduates
- NDEB certification process based on accreditation status of the program
Reciprocity Agreements

- Between the Commission on Accreditation of Canada and equivalent authority
- Agree to treat graduates of each others accredited programs as equivalent for licensure purposes
- Based on real, in depth, ongoing knowledge of the processes and systems in each country therefore
Reciprocity Agreements

• EXPENSIVE and TIME CONSUMING
Steps in developing an agreement

- Identifying a jurisdiction with a similar accreditation process (in depth self study and site visit) and an interest.
- Establish communications
- Review of standards documents and process to establish comparability
- Bilateral observation of site visit, committee and annual meetings
- Approval of formal agreement
Maintenance of Agreement

- Establish a schedule of bilateral involvement and reporting.
- Review all changes to Standards documents and processes.
- Maintain documentation of oversight
Reciprocal Agreements

- Currently - US, ADC, DCNZ, IDC
- Considering Hong Kong
- Quebec - France agreement not recognized by NDEB
NDEB Certification Process 2011

Graduates of Accredited Programs

Written and OSCE

Certified and Portable
NDEB Certification Process 2011

Graduates of Accredited Programs

Written and OSCE

Certified and Portable

Graduates of Non-accredited Programs

NDEB Equivalency Process
NDEB Certification Process 2011

Graduates of Accredited Programs

Graduates of Non-accredited Programs

Qualifying Program at Accredited school

Written and OSCE

NDEB Equivalency Process

Certified and Portable

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Certified and Portable

NDEB Equivalency Process
<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian DDS/DMD</td>
<td>450</td>
<td>73%</td>
</tr>
<tr>
<td>US</td>
<td>100</td>
<td>16%</td>
</tr>
<tr>
<td>QP/DC Programs</td>
<td>65</td>
<td>10%</td>
</tr>
<tr>
<td>Total</td>
<td>615</td>
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### New Dentists in Canada 2010

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Canadian DDS/DMD</td>
<td>458</td>
<td>69%</td>
</tr>
<tr>
<td>US and Australia*</td>
<td>143</td>
<td>22%</td>
</tr>
<tr>
<td>QP/DC Programs</td>
<td>63</td>
<td>9%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>664</td>
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*best estimates
<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian DDS/DMD*</td>
<td>445</td>
<td>(54%)</td>
</tr>
<tr>
<td>US, NZ and Australia*</td>
<td>170</td>
<td>(21%)</td>
</tr>
<tr>
<td>QP/DC Programs</td>
<td>76</td>
<td>(9%)</td>
</tr>
<tr>
<td>Equivalency Process</td>
<td>130</td>
<td>(16%)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>821</strong></td>
<td></td>
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</tbody>
</table>

*best estimates
<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Canadian DDS/DMD</td>
<td>450</td>
<td>(48%)</td>
</tr>
<tr>
<td>US, NZ, Ireland and Australia</td>
<td>200</td>
<td>(21%)</td>
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<tr>
<td>QP/DC Programs</td>
<td>90</td>
<td>(10%)</td>
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<tr>
<td>Equivalency Process</td>
<td>200</td>
<td>(21%)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>940</strong></td>
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</table>

*estimates
Concern

- Pass rates on the Written and OSCE are somewhat lower for graduates of US, Australian and Irish Programs
- Causes?
  - different tooth numbering system
  - entering GPA
  - younger age at admission
  - not taking the examinations seriously
  - teaching and testing differences
Questions?
NDEB Certification Process 2011

Graduates of Accredited Programs

Written and OSCE

Qualifying Program at Accredited school

NDEB Equivalency Process

Graduates of Non-accredited Programs

Certified and Portable
Application and Credential Verification

- Application must be done online
- Application fee $800 (non refundable) paid online with a credit card
- Specific required documentation verified by NDEB staff including an independent verification of graduation directly from dental program
Assessment of Fundamental Knowledge

- 1 day - 300 multiple choice questions.
- Registration fee $600
- Administered in February and August at multiple sites in Canada, the UK and Hong Kong
- Qualifying/Degree Completion programs use AFK as admission test.
Sample question

For an otherwise healthy patient, with an acute localized periodontal abscess, initial treatment must include

A. scaling and root planing.
B. occlusal adjustment.
C. prescription of an antibiotic.
D. prescription of an analgesic.
Assessment of Clinical Judgement

- 1 day - 3 parts (2 case-based and 1 Radiology) with extended match questions
- Registration fee $1200
- Administered in June and December immediately before the ACS
Question: 3 (select one or more correct answers.)

There is radiographic evidence of calculus on the

-1 B. mesial of tooth 1.8 
(0) C. distal of tooth 1.7 
-1 D. mesial of tooth 1.7 
+ .25 E. distal of tooth 1.6 
-1 F. mesial of tooth 1.6 
+ .25 G. distal of tooth 1.5 
+ .25 H. mesial of tooth 1.5 
+ .25 I. distal of tooth 1.4 
-1 J. mesial of tooth 1.4 
-1 K. distal of tooth 1.3
Assessment of Clinical Skills

- 2 days - 12 requirements performed in a simulated clinical setting (manikins)
- Registration fee $5000
- Administered in June and December at Canadian Faculties of Dentistry.
- Passing standard established using a scoring grid.
Assessment of Clinical Skills

Kilgore (Nissan) manikin series 200 typodont with layered teeth
Requirements for ACS

1. Amalgam preparation
2. Composite preparation
3. Full metal crown preparation
4. Metal ceramic crown preparation
5. Amalgam restoration
6. Class II composite restoration
7. Class IV composite restoration
8. Endodontic access preparation
9. Provisional crown restoration
10. Rubber dam application
11. Record keeping
12. Infection control
Results
## Number of Applicants

<table>
<thead>
<tr>
<th>Year</th>
<th>Applicants</th>
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<tr>
<td>2010-2013</td>
<td>5008</td>
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<tr>
<td>2014 (July 20)</td>
<td>538</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>5546</strong></td>
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<tr>
<td>Country</td>
<td>Number</td>
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<tr>
<td>India</td>
<td>1626</td>
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<td>Iran</td>
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<td>Philippines</td>
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<td>Egypt</td>
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<td>Iraq</td>
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<td>Pakistan</td>
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<td>China</td>
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<td>Colombia</td>
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# Results of AFK

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<td>Participants</td>
<td>821</td>
<td>1125</td>
<td>1187</td>
<td>1277</td>
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<tr>
<td>Pass</td>
<td>359</td>
<td>405</td>
<td>499</td>
<td>619</td>
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<tr>
<td>Range</td>
<td>32-95</td>
<td>28-94</td>
<td>27-95</td>
<td>32-98</td>
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<tr>
<td>KR 20</td>
<td>.97</td>
<td>.96</td>
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## Results of ACJ

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<tbody>
<tr>
<td>Participants</td>
<td>289</td>
<td>373</td>
<td>490</td>
<td>652</td>
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<tr>
<td>Pass</td>
<td>144</td>
<td>243</td>
<td>291</td>
<td>459</td>
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## Results of ACS

<table>
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<tr>
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<th>2011</th>
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<th>2014</th>
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<tbody>
<tr>
<td><strong>Participants</strong></td>
<td>266</td>
<td>359</td>
<td>484</td>
<td>500</td>
</tr>
<tr>
<td><strong>Pass</strong></td>
<td>61</td>
<td>129</td>
<td>125</td>
<td>175</td>
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### Overall results

<table>
<thead>
<tr>
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<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
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<tr>
<td>Took all parts</td>
<td>247</td>
<td>??</td>
<td>??</td>
<td>??</td>
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<tr>
<td>Pass</td>
<td>44</td>
<td>127</td>
<td>143</td>
<td>174</td>
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<tr>
<td>Admitted QP/DC</td>
<td>79</td>
<td>80</td>
<td>91</td>
<td>90</td>
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<td>123</td>
<td>207</td>
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