Assessing Critical Thinking and Hands-On Learning in Cariology in a New Curriculum
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GUIDELINES FOR A CARIOLOGY CURRICULUM FOR THE 21ST CENTURY

- Focus on disease prevention and health promotion
- Focus on minimal surgical intervention
- Risk based decision-making
- Based on best available evidence (enhancing translation of research findings into clinical practice to improve health)
- Patient/Community-centered

The Cariology Curriculum involves a series of courses throughout the 4 years of the DDS curriculum that will be establishing:

- Didactic foundational knowledge (traditional lecture formats and online content delivery)
- Skills development
- Patient case discussions
- Clinical experiences

All of these designed to enhance and facilitate active student learning, critical-thinking, problem-solving, and use of evidence-based information for dental caries detection, diagnosis, risk assessment, prevention and management.

Clinical Experiences:
Test cases (competency), e-Portfolios (sustainance of competency)

Didactic Examination
(Caries Detection Assessment Results Based on Images): Responses to similar questions ranged: 90-100%

Practical Examination (Real teeth): Percentage of Correct Responses (Mean±SD;Paired-t test; p<0.001)

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<tr>
<th>Pre-lab</th>
<th>Post-lab</th>
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<td>75% ± 9%</td>
<td>89% ± 6%</td>
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ASSESSMENT 1
DIDACTIC

ASSESSMENT 2
HANDS ON

ASSESSMENT 3
CASE BASED

Clinical Experiences: Test cases (competency), e-Portfolios (sustainance of competency)