

An Evaluation of Dental Continuing Professional Development Programs in the USA and Canada

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What is Continuing Professional Development?

- The practice of dentistry is constantly evolving, as such, all regulated oral health care providers must continuously update their knowledge base and refine their skills through continuing professional development programs to maintain the highest standards of care
- Continuing Education (CE): Life-long learning activities provided for professionals
- Continuing Professional Development (CPD): program that consists of lectures, seminars, courses, individual study, and other activities to advance your professional development
- Mandatory CPD: as a requirement to maintain licensure
- **Voluntary CPD**: to maintain registration to a specific professional association (e.g., ABPD)

Ideal Components of a CPD Program¹⁻³

Learning Strategies

- Predisposing Activities: gauges competence and knowledge of learners before an activity
- **Enabling Activities**: eliminating or reducing gapes in knowledge during an activity
- Reinforcing Activities: recall what dentists have learned and when they can apply it

Assessments

- Needs: collects and analyzes information to identify gaps
- Formative: reduce or eliminate a gap through practice and feedback
- **Summative**: after a learning experience to determine if learners have improved

Research Questions

There is great deal of variability in the quantity, quality, and associated costs of CPD activities. Thus, this research attempts to address the following exploratory questions:

- 1. What are the differences in minimum CPD requirements as it relates to CE credits, assessment strategies, and learning outcomes?
- What are the attitudes and behaviours towards CE, assessment strategies, and learning strategies?

Methods

Environmental Scan: Consisted of a review of all existing licensing (mandatory) CPD requirements posted on the websites of State (USA) and Provincial/Territorial (Canada) regulatory authorities

Survey: A 40-item questionnaire was developed to assess the knowledge, attitudes, and behaviours towards CPD requirements, learning strategies, and the use of assessments. Survey questions were pilot tested, and then distributed to representatives from each regulatory body (62 total) via SurveyMonkey

Data Analysis: the combined dataset was anonymized, cleaned, and coded. The first step included a descriptive analysis of the data. Data for continuous variables were calculated as means and standard deviations and categorical data are presented as proportions. All analysis was performed using STATA 15 software

Key Findings

- Learning activities and assessments are not often used nor seen as essential tools, possibly due to funding, resources, and costs
- Summative assessments are preferred over formative assessments or portfolio reviews, this is likely attributable to the increased resources required for formative assessments
- There was limited capacity amongst regulatory bodies to develop their own CE courses. Over 75% of respondents incorporate content of external CE courses.

Conclusions

Learning activities and assessments are not seen as essential tools

and are thus not often implemented into CPD programs as

Renewal fees are not enough to cover CPD programming and

sponsorship/funding is required to support these programs

requirements

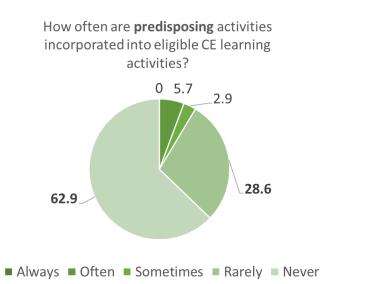
Main Results

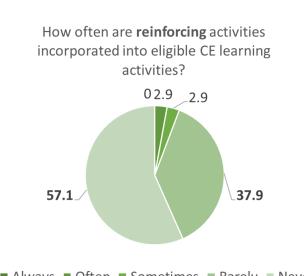
Summary of CPD Requirements

	Total	USA	Canada	
Sample (n)	62	51	11	
Dentists per 100,000 population	59.9 ± 20.3	57.13 ± 10.7	72.88 ± 41.51	
Mean CE hours per year	19.58 ± 5.42	18.20 ± 4.23	26.67 ± 5.44*	
Min	8	8	16	
Max	30	30	30	
Renewal Cycle				
1	7%	8%	0	
2	66%	77%	9%	
3+	28%	14%	91%	



CE Learning Activities





■ Always ■ Often ■ Sometimes ■ Rarely ■ Ne

Future Research

- Further work is needed to understand clinician preferences towards choosing specific learning activities and assessment strategies
- Research that focuses on the association between CPD and patient outcomes is also required

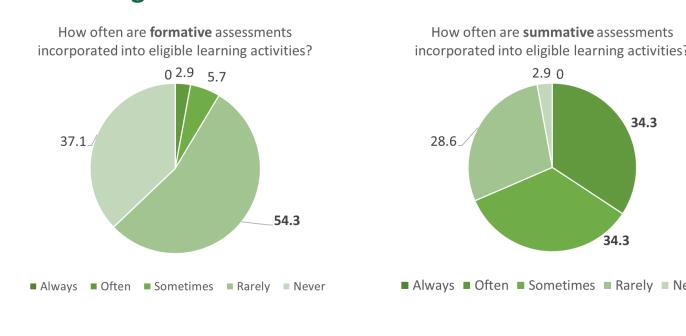
Analysis of Responses Related to Current CPD Programs

Disagree/Strongly	Undecided (%)	Agree/Strongly Agree (%)	
65.7	8.6	25.7	
14.3	11.4	74.3 28.6	
62.8	8.6		
34.3	28.5	37.2	
42.8	28.6	28.6	
48.5	14.3	37.2	
48.5	14.3	37.2	
62.9	14.2	22.9	
25.7	22.9	51.4	
14.3	11.4	74.3	
	Disagree (%) 65.7 14.3 62.8 34.3 42.8 48.5 48.5 62.9 25.7	Disagree (%) (%) 65.7 8.6 14.3 11.4 62.8 8.6 34.3 28.5 42.8 28.6 48.5 14.3 48.5 14.3 62.9 14.2 25.7 22.9	

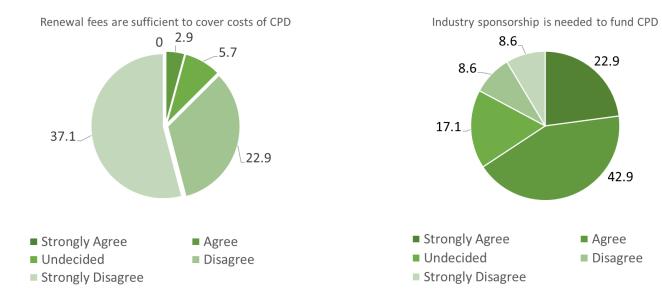
Analysis of Responses Related to Existing CE Programs (N=35)

,		0	0	•	
				Total (%)	
Does your association currently	ly offer your own CE c	ourses?			
Yes				48.6	
No				51.4	
Does your association currently					
Yes				77.1	
No				22.9	

CE Learning Activities



CPD Program Fees and Funding



Acknowledgements

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References

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