Perceptions on Competence by Design in urology

Peter (Zhan Tao) Wang, MD1; Ernest Chan, MD1; Adam Forster, MD2; Jennifer Vergel De Dios, MD3; Alp Sener, MD1,4; Sumit Dave, MD1,5; Saad Chahine, MD6

1Department of Surgery, Division of Urology, Western University, London, ON, Canada; 2Schulich School of Medicine & Dentistry, Western University, London, ON, Canada; 3Department of Anesthesiology, Western University, London, ON, Canada; 4Department of Microbiology and Immunology, Western University, London, ON, Canada; 5Department of Pediatrics, Western University, London, ON, Canada; 6Department of Medicine, Faculty of Education, Western University, London, ON, Canada

Cite as: Can Urol Assoc J. 2019;13(7):E183-9. http://dx.doi.org/10.5489/cuaj.5610

Published online November 20, 2018

Abstract

Introduction: The Royal College of Physicians and Surgeons of Canada has begun implementing Competence by Design (CBD). However, it is unclear how much urology trainees and faculty know about CBD, their attitudes towards this change, and their willingness to embrace and participate in this new model of training.

Methods: This cross-sectional study was conducted through an online survey, which was administered to all trainees and faculty at Canadian urology programs prior to the implementation of CBD. The final survey consisted of eight demographic questions, 17 five-point Likert items, one visual analog scale question, 11 multiple-choice questions, and two open-ended questions.

Results: A total of 74 participants (38 faculty and 36 trainees) across 12 universities responded, with a completion rate of 82.4%. This corresponded to an overall response rate of 20.5%. Overall, there was a lack of resounding enthusiasm towards this shift to CBD in urology. Although both trainees and faculty had overall positive perceptions of CBD on assessment, teaching, and readiness, most agreed that this transition will be costly and associated with increased requirements for time, funding, and administrative support. Furthermore, there were significant concerns regarding the lack of valid assessment tools and evidence for the validity of entrustable professional activities.

Conclusions: While this survey has demonstrated an appreciation for the benefits of CBD, challenges are equally anticipated. CBD in urology will be a fertile research area; this study has identified several important educational questions regarding the model’s effectiveness and consequences, thus, providing collaborative opportunities among all Canadian programs.

Introduction

Introducing competency-based medical education (CBME) without understanding readiness for program transition may be detrimental to its successful implementation. Globally, training programs are embarking on this major transformation by moving away from the “time-based” model of postgraduate medical education and instead focusing on the process of attaining competence on key expectations of the profession.1,2

The Royal College of Physicians and Surgeons of Canada (RCPSC) has begun implementing a customized version of this learner-centered, outcomes-based approach to training and assessment called Competence by Design (CBD). This approach to training fits within the Canadian context and is proposed to be more flexible, accountable, and adaptable.3,4 Using a staged rollout, the process has already started in urology as of July 2018. However, it is unclear how much urology trainees and faculty know about CBD, their attitudes towards this change in medical pedagogy, and their willingness to embrace and participate in this new model of medical training.

Literature review

Little is known about the readiness of programs embarking on a CBD transformation.5 Interviews with Canadian program directors and residents in anesthesiology prior to the implementation of CBD indicated a variety of perceived challenges, including increased burden on program administration, implications for trainees, and ambiguity regarding “competence” and how evaluation will be performed.6 Similar findings were demonstrated by Mann et al in a preliminary study of residents on their perceptions of CBD.7 In the U.S., members of the Residency Review Committee for Urology highlighted the paucity of effective evaluation tools and lack of evidence that these changes will ultimately improve the training of residents.8 Despite these uncertainties, all urology residency training programs will be making the transition to CBD.

CBD refines how educators and trainees interact and work together. Specifically, CBD involves generating a new approach to trainee evaluation through developing and implementing tools that focus on meeting milestones. There is also a focus on creating a learner-centered curriculum, with emphasis on objective trainee competency as a necessity for graduation.9 Competency is achieved by meeting pro-
ficiency in required entrustable professional activities (EPAs) prior to the conclusion of training. EPAs are the fundamental units of training that are required for unsupervised practice in each program, developed by consensus agreements within specialty working groups for that program.

Some have challenged the comprehensiveness of EPAs to act as a representation of physician competency. Inconsistencies also exist in the decisions surrounding which EPAs should be assessed, how the milestones (subunits of EPAs) ought to be evaluated, and how many times a trainee needs to be evaluated on an EPA to be deemed competent. This lack of agreement, coupled with unfamiliarity about CBD, may result in “logistical chaos.”

Furthermore, some authors have postulated that an EPA-centric curriculum would remove important clinical experiences deemed unnecessary to achieve competence, creating a utilitarian approach to the trainee. However, our current experience is unknown, and these uncertainties undocumented.

Objectives

In this study, we seek to compare the perceptions and attitudes of trainees (residents/fellows) and faculty towards CBD within urology, as well as identify perceived benefits and challenges of this transition.

Methods

Institutional ethical approval was obtained (IRB#111397). This cross-sectional study was conducted through an online survey (Qualtrics) comprising both qualitative- and quantitative-based items. The survey was administered to all trainees and faculty at Canadian urology programs in April 2018, with all data collected prior to the implementation of CBD in July 2018.

Survey design

The survey was designed to evaluate five constructs related to CBD: teaching, assessment, institutional readiness, influences on academic/clinical practice, and time commitment. An extensive list of survey items was developed by three educators (PW, SC, and JV) using brainstorming sessions and literature review.

Survey items were then reviewed by five urology faculty members at Schulich School of Medicine & Dentistry. These experts rated items from 1–10 (10=very important). Items that were rated 7 or higher were kept for the final survey, while items rated 4 or below were removed. Items rated 5–6 were modified, retained, or removed based on expert opinion.

The final survey consisted of eight demographic questions, 17 five-point Likert items (5=strongly agree, 1=strongly disagree), one visual analog scale (VAS) question, 11 multiple-choice questions, and two open-ended questions (Appendix 1). All but the open-ended questions were required for the completion of the survey. The multiple-choice questions elicited binary responses (agree/disagree) on benefits (26 items) and challenges (27 items) of CBD described by previous qualitative studies and the RCPSC.

Participant recruitment

Trainees and faculty from 12 Canadian urology programs were electronically solicited to participate in the study. Participants were provided with an anonymous link to the survey. Participation was voluntary with submission of the survey implying consent. All potential participants were invited to respond within one month, with a reminder sent four weeks afterwards.

Statistical analysis

Descriptive statistics were performed on the demographic data. Prior to comparative analyses, Cronbach’s alphas were computed to investigate the reliability of the constructs used to design the survey and to provide evidence supporting valid interpretations. The Kuder-Richardson-20 (KR-20) reliability index was used to estimate internal consistency within the perceived benefits and challenges.

Perceptions of the five constructs, as well as the perceived benefits and challenges between faculty and trainees, were compared using independent samples t-tests with Bonferroni corrections applied. Statistical analyses were conducted using SPSS (version 25, IBM) and Iteman (http://www.assess.com/iteman/).

Qualitative analysis

A general thematic analysis was used to determine patterns of responses to open-ended questions. Each response was reviewed and thematically coded by two research team members (AF and EC). The team met after the initial coding to refine the themes. Themes were then reviewed once more for final confirmation. The most common themes identified are presented in this paper with representative quotes.

Results

A total of 74 participants (38 faculty and 36 trainees) responded, with a completion rate of 82.4%. This corresponds to a response rate of 20.2% among academic urology faculty and 20.8% among urology trainees (20.5% response rate overall). Of the faculty, 27 (71.1%) were Residency Training Committee (RTC) members. Table 1 summarizes the distribution of the trainees by postgraduate year (PGY) and faculty by years in practice.
Overall, there were no significant differences between trainees and faculty in terms of favorability of CBD (6.0±2.1 vs. 5.0±2.5; p = 0.91), such that both groups did not have overtly positive or negative favorability towards the implementation of CBD. Among faculty, 24 (64.9%) believed that their program was ready for CBD.

Perceptions

Four of the five constructs were made up of multiple items, while time commitment was summarized in one item. The four multi-item constructs analyzed are summarized in Supplementary Table 1. Overall, the four multi-item constructs had high internal consistency: teaching (α=0.87), assessment (α=0.83), readiness (α=0.81), and influence (α=0.87).

Table 2 summarizes the comparison of CBD perceptions between faculty and trainees. Specifically, there were no significant differences between faculty and trainees with regard to their perceptions of assessment, teaching, and readiness; both groups had overall positive perceptions towards these constructs. For example, both faculty and trainees perceived a benefit on the assessment of trainees, which included improved quality of feedback and ability to identify specific areas of weakness (faculty 3.82±0.90 vs. trainees 3.83±0.66; p=0.865).

While both groups agreed CBD would increase the time commitment required of faculty, there was a significant difference in the strength of agreement (4.57±0.56 vs. 4.00±0.89; p=0.002). However, more faculty perceived a negative influence of CBD on their clinical or academic practice, whereas trainees demonstrated an overall neutral stance on this construct (2.57±0.81 vs. 3.15±0.91; p=0.006).

Benefits and challenges

There was high internal consistency for the benefit (KR-20=0.94) and challenge (KR-20=0.94) items on the multiple selection questions. Overall, participants agreed on 46% of the 26 benefit items. Similarly, participants agreed on 46% of the challenges. The correlation was moderate (r=0.52), suggesting those who perceived more benefits also perceived more challenges.

The perceived benefits are summarized in Table 3. The most common benefit perceived by both groups was an improved ability to identify specific areas of weakness, although a significantly higher proportion of trainees perceived this to be a benefit compared to faculty (97.1% vs. 74.2%; p=0.026).

The most prevalent theme among the top benefits related to assessment and feedback (8/10). The last two items related to improved accountability and transparency in resident training. Surprisingly, the role of a competency committee was not globally perceived as a benefit. Similarly, most respondents did not view CBD as being beneficial to patient care, resident wellness, or the transitions between medical school, residency, and independent practice.

Table 4 highlights the top challenges perceived by the participants. There were no statistical differences in the responses between the two groups. The top six challenges were related to increases in the resources required for the implementation of CBD (time, cost, and administrative support) and the subsequent impact on clinical practice.

The four challenges described concerns regarding “process” items of CBD, including the lack of valid assessment tools, difficulties in achieving rare EPAs, unequal distribution of evaluations among faculty (“gaming” the system by trainees), and remediation in the form of individualized learning programs. Items relating to number of common cases, resident competition, and scheduling, as well as impacts on future fellowship and employment were not viewed as significant challenges.
Qualitative analysis

The common themes identified from the qualitative analysis were similar to our quantitative results. Representative quotes are included in Supplementary Table 2 to exemplify the emotional tone of the responses.

When the respondents were asked to comment on their greatest concern regarding this transition into CBD, two common themes were identified: burden and lack of evidence. Overall, burden was the most prevalent theme and created the greatest degree of concordance between faculty and trainee. There is particular emphasis on time commitment required to complete EPAs meaningfully and a general paucity of preparedness at an administrative level. In addition, there was a collective concern regarding the unintended consequences of this increased burden on faculty, residents, and patient care. The theme relating to the lack of evidence centered on EPAs as appropriate targets for resident competency, leading to a broader lack of confidence towards CBD as an effective way to structure a residency program.

This thematic analysis also identified two common benefits from the respondents: early identification and teaching/feedback. Unsurprisingly, the theme of identifying trainees with specific or global deficiency was common among the respondents. However, the general conviction and tone regarding this benefit were irresolute. Furthermore, there was a perception that CBD could foster consistent and continuous improvement among trainees through improved teaching resulting from regular feedback and well-defined targets.

Discussion

The RCPSC’s CBD initiative branched from the recommendations by the Future of Medical Education in Canada Postgraduate Project (FMEC PG). The rationale behind this shift towards CBD is that responsible medical education involves systematic deliberation (i.e., designing) of a learner’s journey throughout his/her entire career. Through CBD, this is achieved by training learners based on competencies that are required by an independently practicing healthcare professional. This is facilitated through discipline-specific assessment, increased emphasis on direct and indirect observation, and provision of timely, constructive, and specific feedback.

Table 3. Comparison of top 10 perceived benefits between trainees and faculty

| Rank (%) | Perceived benefits                                      | Trainee (%) | Faculty (%) | p     |
|----------|---------------------------------------------------------|-------------|-------------|-------|
| 1 (86.2) | Improve ability to identify specific areas of weakness | 97.1        | 74.2        | 0.026 |
| 2 (83.1) | Identification of residents who require extra assistance| 91.2        | 74.2        | 0.141 |
| 3 (78.5) | More personalized feedback                              | 85.3        | 71.0        | 0.243 |
| 4 (76.2) | Improve residents’ knowledge of the competencies they are expected to achieve | 75.8 | 76.7 | 0.959 |
| 5 (76.2) | Improve residents’ awareness/clarity of competency level that residents are expected to attain | 75.8 | 76.7 | 0.447 |
| 6 (75.4) | Facilitate feedback delivery                            | 76.5        | 74.2        | 0.263 |
| 7 (75.4) | Increase frequency of structured feedback               | 79.4        | 71.0        | 0.084 |
| 8 (75.4) | Increase accountability of faculty for resident education| 76.5        | 74.2        | 0.311 |
| 9 (64.6) | Improve faculty awareness/clarity of competency level that residents are expected to attain | 64.7 | 64.5 | 0.175 |
| 10 (64.5) | Promote transparency in residency training              | 68.8        | 60.0        | 0.769 |

Rank is based on response from both faculty and trainee.

Table 4. Comparison of top 10 perceived challenges between trainees and faculty

| Rank (%) | Perceived challenge                                      | Trainee (%) | Faculty (%) | p     |
|----------|---------------------------------------------------------|-------------|-------------|-------|
| 1 (93.4) | Increased administrative burden for faculty             | 90.3        | 96.7        | 0.513 |
| 2 (90.2) | Increased administrative burden for coordinators        | 87.1        | 93.3        | 0.189 |
| 3 (88.5) | Increased faculty time commitment to teaching           | 83.9        | 93.3        | 0.499 |
| 4 (88.5) | Need for faculty commitment and participation           | 83.9        | 93.3        | 0.395 |
| 5 (80.3) | Increased burden on clinical practice                   | 80.3        | 80.0        | 0.111 |
| 6 (77.0) | Increase expenses required for implementation and maintenance of CBD | 71.0 | 86.7 | 0.119 |
| 7 (68.9) | Lack of valid and reliable tool to measure program-specific competencies | 64.5 | 73.3 | 0.715 |
| 8 (67.2) | Difficulty achieving competence in EPAs that occur uncommonly | 64.5 | 70.0 | 0.398 |
| 9 (67.2) | Promote selective evaluation by residents (residents choose “easy” evaluators) | 64.5 | 70.0 | 0.31 |
| 10 (65.6) | Need for development of individualized learning programs | 61.3        | 70.0        | 0.75  |

Rank is based on response from both faculty and trainee. CBD: Competence by Design; EPAs: entrustable professional activities.
By focusing on the development of competence through EPAs, CBD shifts the focus of residency to learning as opposed to time spent in training. This is thought to ensure competence, support development of skills and abilities throughout practice, address gaps in training, increase accountability, and promote transparency in resident training. Such needs in urology have previously been described by Morrison and MacNeily, who indicated that many specialized clinical areas of urology required increased emphasis, as well as a need for preparing residents in their transition to independent practice.

In this study, we found a general sense of uncertainty and neutral favorability toward CBD among urologists and urology trainees in Canada. The perceived benefits of CBD are self-evident. Both faculty and trainees agreed that improved assessment and feedback were the overarching hallmark of this training model, with a specific focus on the ability to identify specific areas of weakness. These findings correlate well with previous qualitative studies. However, when discussing this benefit, Boet et al caution us that one must also note and understand the ambiguity surrounding definitions of “competence.”

Competency, as defined by the RCPSC, is “an observable ability of a health professional to integrate multiple components, such as knowledge, skills, values, and attitudes. Since competencies are observable, they can be measured and assessed to ensure their acquisition. Competencies can be assembled like building blocks to facilitate progressive development.” However, the competencies of surgeons also include procedural skills, which may not have a predefined gold standard. Furthermore, these benefits are grounded on the assumption that providing routine evaluation and feedback improves learning. However, this also assumes that we have valid and effective evaluation tools for our EPAs. This may not be the case, as lack of valid assessment tools was perceived to be a common challenge among urologists. This limitation is further compounded by the variability in the development of assessment tools across the different programs in Canada, as well as the pseudo-requirement of basing these tools on the Ottawa Surgical Competency Operating Room Evaluation (O-SCORE), which was validated on a population of orthopedic and general surgery residents.

Similar concerns were found regarding the accuracy of EPAs in our qualitative analyses. Apramian et al described how different surgeons had divergent views on whether or not certain procedural steps were principles vs. preferences for the same surgery. If the success of CBD is predicated on the accurate measurement of competence and constructs of EPAs, then this discordance further muddies the potential benefit of CBD.

The challenges demonstrated in this study were similar to previous studies, citing increased resource allocation as a major deterrent to the implementation of CBD. This challenge includes both the increased financial and administrative burden placed on Canadian programs. Overall, 80% of participants perceive a detrimental effect on the day-to-day clinical practice of faculty due to CBD. In addition, there were concerns regarding “gaming” or choosing “easy” evaluators by trainees and whether this would unevenly distribute the burden of assessment.

These perceived challenges provide insight into important educational questions: What are the unintended consequences of this implementation moving forward? How will the increased frequency of assessment affect the emotional well-being of the trainees and faculty? How will trainee or faculty fatigue affect the accuracy of these assessments? Certain parallels may be drawn from the frequent high-stakes “testing” of the “No Child Left Behind” initiative in the U.S. A survey conducted by Jones et al showed that 48.5% of teachers felt frequent high-stakes testing had a negative impact on students’ “love of learning” and 61% percent felt their students were more anxious because of it. Educator burnout due to this initiative has also been described.

Limitations

The interpretation of this study is limited by the biases inherent to a relatively small response rate and study population. Furthermore, a French language version of this survey was not available, which may have reduced our response rates. In addition, given the fait accompli of CBD implementation, the responses to this survey may be different if this study was performed prior to the decision of implementing CBD. Lastly, the current trainees taking part in this survey are unaffected by the process, as CBD is only relevant and instituted for new PGY1s.

Although this is the first study to uniformly survey both faculty and trainees of a subspecialty surgical program, these findings may not be generalizable to non-surgical programs. However, the findings of this survey may provide important insight to other surgical programs due for CBD implementation in the coming years.

Conclusions

Overall, this study has shown a lack of resounding enthusiasm towards this shift to CBD in urology. Although both trainees and faculty had overall positive perceptions of CBD on assessment, teaching, and readiness, most agreed that this transition will be costly and associated with increased requirements for time, funding, and administrative support. Furthermore, there were significant concerns regarding the lack of valid assessment tools and evidence for the validity of EPAs. CBD in urology will be a fertile research area. This study has identified several important educational questions.
regarding the model’s effectiveness and potential consequences, thus providing collaborative opportunities among all Canadian programs.

Competing interests: The authors report no competing personal or financial interests related to this work.

This paper has been peer-reviewed.

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Supplementary Table 1. Constructs and included items used for validity and reliability testing

| Construct     | Item                                                                 | Mean | SD  | n  |
|---------------|----------------------------------------------------------------------|------|-----|----|
| Teaching      | CBD will improve my teaching of residents                            | 3.44 | 0.87| 73 |
|               | CBD will improve my role as a teacher                                | 3.45 | 0.91| 73 |
|               | CBD helps identify residents who require extra assistance            | 3.44 | 0.88| 73 |
|               | CBD will improve my feedback to residents                            | 3.77 | 0.97| 73 |
| Assessment    | CBD will improve my ability to identify specific areas in need of improvement for resident feedback | 3.86 | 0.93| 73 |
| Readiness     | CBD will improve my evaluation of residents                           | 3.77 | 1.01| 73 |
|               | CBD makes my institution more accountable for our graduates           | 3.47 | 1.09| 72 |
|               | I am comfortable with my current knowledge of CBD                    | 3.51 | 0.80| 72 |
|               | I received or will receive adequate training prior to the implementation of CBD | 3.64 | 0.98| 72 |
|               | I am comfortable with the implementation process of CBD              | 3.76 | 0.87| 68 |
|               | My program is/was prepared for the transition into CBD               | 3.13 | 1.19| 70 |
|               | CBD will have a positive influence on my academic practice           | 3.59 | 0.93| 69 |
| Influence     | CBD will have a positive influence on my clinical practice (output)  | 3.86 | 0.90| 72 |
|               | CBD will have a positive influence on my clinical practice (output)  | 3.90 | 0.98| 70 |
|               | CBD will have a positive influence on my clinical practice (output)  | 2.90 | 1.01| 70 |
|               | CBD will have a positive influence on my clinical practice (output)  | 4.29 | 0.79| 73 |

Likert scale: 5=strongly agree and 1=strongly disagree. CBD: Competence by Design; SD: standard deviation.
### Supplementary Table 2. Common themes and representative quotes from qualitative analysis

| Themes                | Representative quotes                                                                                                                                 |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Burden                | “This is going to be a big burden on residents and staff for the frequent evaluations that have to be done for each EPA. I’m just not sure how receptive the staff will be with each evaluation.” |
|                       | “…the quality of evaluations will be meaningless. We don’t have time to do these many evaluations. We are first and foremost providing patient care, and this CBD structure will compromise patient care.” |
| Lack of evidence      | “(The) specificity of the EPA model loses any value when the ITER/global assessment model may have had in determining whether the resident is ‘getting along well’, which is different from ‘meeting an academic milestone’.” |
|                       | “(There is a) lack of evidence first off to suggest it is any better (than the current model). Lack of validated competency endpoints.” |
|                       | “Validated assessment tools are lacking.”                                                                                                              |
|                       | “There is no objective measure to indicate that this will create a more competent resident after five years.”                                             |
| Early identification  | “Inter-rater reliability creates further assessment challenges.”                                                                                     |
|                       | “(CBD will) hopefully be able to pick out people who are struggling earlier on.”                                                                     |
| Teaching/feedback     | “Timely constructive feedback will enhance early education.”                                                                                          |
|                       | “Increased…awareness of EPAs among attendings will foster better attention to the specifics of the task and attention to components of patient care that may be undersubscribed.” |
|                       | “The increased frequency in feedback will allow residents to improve more continuously.”                                                            |

CBD: Competence by Design; EPAs: entrustable professional activities.