DATA NOTE

Data set and methodology involving pedagogical approaches to teach mental health and substance use in dental education

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Abstract
Objective: In this Data note, we provide a raw data set in the form of brief self-guided reflections. We also present the methodological approach to generate these reflections including an educational vignette so that other dental schools can plan for their teaching activities involving mental health and substance use topics.

Data description: Between 2015/16 and 2018/19, the University of British Columbia’s (UBC) undergraduate dental and dental hygiene students submitted optional written guided reflections to address ‘how can an educational vignette, depicting a patient with a history of substance use and mental health disorders accessing dental care, promote an open dialogue about stigma?’ From a total of 323 undergraduate students, 148 anonymous reflections between 200 and 400 characters each were received. The main ideas that may emerge from the reflections include ‘exploring power relations’ and ‘patient-centered care approach to counteract stigma’.

Keywords: Secondary data analysis, Reflections, Substance use, Mental health disorders, Undergraduate education, Vignette

Objectives
The objective of this data note is twofold: (1) to illustrate the methodological approach used to generate guided reflections at undergraduate level aided by a patient-based vignette portraying an individual with a history of substance use and mental health disorders; and (2) to provide a summary of the raw data set in the form brief educational reflections submitted anonymously by undergraduate dental and dental hygiene students. These reflections were used in our recent publication titled: The role of an educational vignette to teach dental students on issues of substance use and mental health disorders at the University of British Columbia: An exploratory Qualitative study [1]. By offering the reader with a road map to generate such reflections, and a summary of the reflections themselves, we hope to engage other dental schools in planning their educational teaching activities on issues pertaining to mental health and substance use for dental and dental hygiene students as we have advocated over the years [2–4]

Data description
Secondary analysis is common with qualitative—numerical—data in which the original data set [5] is re-analyzed for new insights [6]. Less frequent is the re-evaluation of quantitative—textual—data given their inherent subjective nature [7]. However, an original compilation of textual data [8] can be re-interpreted to unravel new understandings [9]. And that is what we hope to accomplish with this Data note. Between 2015/16 and 2018/19 [10], we have asked undergraduate dental students at the UBC to reflect on issues of stigma and discrimination towards substance use and mental health disorders as a
socially responsible provider [11–13]. These anonymous reflections were prompted by an educational vignette posed during a 2.5 h didactic session [3]—please see a suggested methodological approach to generate reflection data [14].

We have gathered 148 anonymous reflections ranging from 202 to 405 characters each, leading to more than 284 double-spaced pages of text. We present the reflection data according to the five major ideas that might or might not coincide with the readers’ take on the raw data:

**Vignettes in undergraduate education**
This file may attest for the value of a vignette to generate discussion within an undergraduate classroom. The reader may also appreciate how vignettes present themselves as an alternative way to facilitate the discussion of sensitive issues that emerge from lack of knowledge and awareness [15].

**Vignette to explore stigma and mental health disorders**
In this file, the reader can understand mental health disorders as the most often stigmatized conditions [16, 17]. However, issues of stigma based on other characteristics or traits may also surface [18–22].

**The interplay of Link & Phelan’s stigma framework**
This file shows how the vignette helped students to discuss Link & Phelan’s framework on stigma [23]. The reader might explore how labels become the basis for stereotypes as they set into action negative images about certain conditions and individuals [24, 25].

**Patient-centered care approach to counteract stigma**
The textual data in this file may counteract stereotypes and labels about certain patients once health professionals consider patients’ history and environmental, societal and personal factors. Such consideration falls within a patient-centred care approach [26, 27].

**Not a one-size-fits-all use of the vignette**
This file gives the reader the opportunity to explore how the vignette might have not engaged students into the discussions [8]. It might also point out to the fact the vignette may not have offered sufficient information about the patient [28, 29].

**Limitations**
- The reflection data came from a study involving a small number of undergraduate students from one Canadian dental school only, albeit involving cohorts from multiples years.
- The method for gathering the reflection was a one-time invitation per academic year.
- We could not gather the information pertaining to student’s previous substance use or stigma reduction training.
- These cohorts might not typically represent all oral health care professionals; generalizability of the reflections is limited.
- The optional nature of the reflections might have limited the amount of data, but might have engaged those students who had something to say.
- Although we gathered 148 reflections, ideas were repeated within many submissions over the years.
- The session described herein was modified during the Covid-19 pandemic in 2019/20 and 202/21, where no reflections were gathered.

Table 1 provides an overview of all data set described in this Data note.

| Label | Name of data file/data set | File types (file extension) | Data repository and identifier (DOI or accession number) |
|-------|----------------------------|-----------------------------|---------------------------------------------------------|
| Data file 1 | Methodological_approach_to_generate_reflection_and_reflective_notes | Microsoft Word (.docx) | https://doi.org/10.5061/dryad.gtht76hmv [14] |

**Abbreviations**
COVID: coronavirus disease; Q&A: Question and answer; UBC: University of British Columbia.

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**Authors’ contributions**
MB contributed to the conception, design, data acquisition and drafting and critically revising this Data note. RA conducted the interviews that lead to the vignette, and developed the vignette. LD also contributed to data acquisition, helped organizing the educational session described herein, and in revising this Data note. All authors read and approved the final manuscript.

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Availability of data and materials
The data described in this Data note can be freely and openly accessed on Dryad under Ref. [14]. Please see references [1, 3, 25] for details to already analyzed data.

Declarations

Ethics approval and consent to participate
The University of British Columbia Researcher Information Services (RISe) Ethical Approval was obtained through # H19-01005.

Consent for publication
Not applicable.

Competing interests
The authors declare no conflict of interest, and are the sole responsible for the content and writing of this manuscript.

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