

August – 2025

# Trauma-Informed Education in Open Online Courses: Lessons from Teacher Continuous Professional Development During COVID-19

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## Abstract

This study evaluates the feasibility and impact of the Open Online Course (OOC) aimed at enhancing teachers' trauma-informed care practices during the onset of the COVID-19 pandemic. Educators from two public primary schools in Queensland, Australia, completed the course. Twenty-six educators were interviewed about their experience of the OOC. Thematic analysis revealed the feasibility of the OOC was influenced by participants' ability to navigate the digital divide and allocate time for learning. The impact of the OOC was reflected in reports of the adoption of trauma-sensitive classroom management techniques amongst participants. The findings highlight that sustaining OOC-based teacher education on trauma-informed practice requires long-term access, integration of trauma-informed strategies, and ongoing support for hyflex and blended learning models. Findings are mapped onto a trauma-informed education framework and inform recommendations for future OOC design and delivery in post-pandemic educational settings.

*Keywords:* open online courses, trauma-informed practice, implementation, teacher education, thematic analysis

## Introduction

The COVID-19 pandemic disrupted global education, forcing school closures and remote learning, which impacted children's academic, social, and emotional development, heightening stress and anxiety (Rao & Fisher, 2021). Several students even experienced acute stress disorders due to the prolonged isolation and disruptions to daily routines (Acosta et al., 2021). Additionally, physical distancing and mask wearing further hindered social interactions, intensifying feelings of separation (Kaim et al., 2023). These disruptions underscore the critical need for trauma-informed educational practices to address the heightened emotional and psychological challenges faced by students during and after the pandemic.

Trauma-informed care, as outlined by the Substance Abuse and Mental Health Services Administration (SAMHSA, n.d.), is based on six principles: safety; trust; peer support; collaboration; empowerment; and cultural, historical, and gender sensitivity. These principles are designed to create an environment where individuals feel secure, understood, and supported. Safety refers to the physical and emotional security provided to individuals, ensuring that the environment is non-threatening and predictable. Trustworthiness and transparency emphasize the importance of clear, consistent, and open communication, fostering a sense of reliability and integrity within the organization. Peer support involves leveraging relationships among individuals with shared experiences to promote recovery and support. Collaboration and mutuality focus on equal partnerships, reducing power imbalances between staff and clients and encouraging shared decision making. Empowerment and choice prioritize the strengths of individuals, offering opportunities for them to make choices and take active roles in their care. Finally, cultural, historical, and gender issues acknowledge and address the unique cultural, historical, and gender contexts that influence individuals' experiences and needs (SAMHSA, n.d.).

Trauma-informed pedagogy integrates these principles into educational settings, focusing on practices such as building strong teacher–student relationships, providing predictable routines, and designing instruction that is sensitive to the diverse needs of students (Brunzell et al., 2018). These practices have been operationalized in programs such as the Healthy Environments and Response to Trauma in Schools (HEARTS; Dorado et al., 2016), the Berry Street Education Model (BSEM, 2019), and the Trauma-Informed Behaviour Support (TIBS; Ayre & Krishnamoorthy, 2020) program. The HEARTS program emphasizes creating trauma-informed, safe, and supportive school environments through prevention and intervention strategies, focusing on building resilience and fostering emotional well-being among students and staff (Dorado et al., 2016). Similarly, the Berry Street Education Model provides practical frameworks for trauma-informed teaching, highlighting strategies to enhance student engagement, emotional regulation, and academic readiness in diverse educational contexts (Brunzell et al., 2018).

Trauma-informed pedagogy extends beyond individual classroom strategies to encompass a holistic approach that recognizes the interconnectedness of students' emotional well-being, social dynamics, and academic performance. For example, the TIBS framework advocates for multitiered supports that address not only immediate classroom needs but also systemic factors that influence student outcomes, such as cultural responsiveness and community collaboration (Bellamy et al., 2022). Through this lens, trauma-informed pedagogy becomes a bridge to equity-focused education, addressing the unique and intersecting needs of diverse learners. Pilot studies of the TIBS program in Australian schools, particularly among First Nations students, have demonstrated improvements in academic outcomes and increased trauma-informed practices among educators (Krishnamoorthy et al., 2024; Schimke et

al., 2022). Similar approaches have been adopted in tertiary education, where trauma-informed strategies have been embedded into nursing and social work training programs, emphasizing the need for self-care, resilience, and cultural competence (Carello & Butler, 2015). In vocational education, trauma-informed pedagogy has been used to support adult learners from marginalized backgrounds, fostering empowerment and employability (Skiba, 2020; Gavin et al., 2024). These examples highlight the versatility of trauma-informed frameworks across diverse educational contexts. These findings highlight the potential for trauma-informed practices to mitigate the negative effects of the pandemic on students and suggest a pathway for future educational interventions.

### **Online Courses for Teacher Education**

The COVID-19 pandemic accelerated the adoption of online teacher education, with virtual professional learning communities and microcredentials efficiently enabling collaboration and skill development (Heap et al., 2020; Terlich et al., 2024). Time management and technical issues limit the effectiveness of digital platforms, underscoring the need for ongoing support in trauma-informed education. Self-paced online courses offer additional benefits, such as the ability for educators to learn at their own pace and on their own schedule (Shaffer et al., 2015). Such courses have been found to be effective when used in combination with in-personal training and other digital training resources. Hybrid-flexible training models—referred to as *hyflex*—involve participants choosing between attending in-person sessions, participating in live online webinars, or engaging with self-paced modules (Beatty, 2019). This adaptability not only accommodates diverse schedules but also supports equitable access to professional development, particularly for educators balancing work and caregiving responsibilities (Kyei-Blankson et al., 2014). The impact of self-paced courses and *hyflex* approaches on actual classroom practices remains under-researched (Bowyer et al., 2023; Etchells et al., 2021). This gap in the literature suggests that more empirical studies are needed to assess the effectiveness of self-paced online courses in promoting trauma-informed teaching strategies.

Digital technologies offer significant opportunities to build trauma-informed practice capabilities in educators, though research on their use in K-12 teacher professional development remains limited. Open Online Courses (OOCs) represent a scalable solution, providing high-quality training accessible to educators regardless of location (Lay et al., 2020). However, challenges such as the digital divide, high dropout rates, and the need for culturally responsive content must be addressed to maximize their effectiveness (Shankar et al., 2021). These challenges underscore the importance of integrating SAMHSA's six principles into OOCs to ensure that the training is not only accessible but also relevant and supportive of educators' well-being. Addressing these challenges could enhance the efficacy of OOCs and contribute to more widespread adoption of trauma-informed practices in schools.

Designing OOCs for trauma-informed practice training requires careful consideration. Such courses must not only impart knowledge about trauma and its effects but also cultivate the empathy, compassion, and self-awareness necessary for effectively implementing trauma-informed practices (Carello & Butler, 2015; Collier et al., 2022a). Despite these challenges, the potential benefits of using OOCs for trauma-informed practice training are compelling. As educators continue to navigate the psychological impact of the pandemic on students, equipping them with the necessary knowledge and skills is paramount. The scalability and accessibility of OOCs make them a promising tool for achieving this goal, especially in a context where traditional training methods may be less feasible.

## Research Aims and Questions

Given the limited research on the impact of online trauma-informed practices, the present study seeks to evaluate the experience, influence, and acceptability of the Trauma-Informed Behaviour Support (TIBS) program, an OOC developed by Dr Kay Ayre and Dr Govind Krishnamoorthy, at two public primary schools in Queensland, Australia. A qualitative approach was employed to understand the effect of TIBS training on teachers' knowledge, attitudes, and pedagogical practices. This study specifically aims to answer the following research questions:

1. How did educators perceive the feasibility of the OOC for trauma-informed practice as a professional development approach during the COVID-19 pandemic?
2. What were the beneficial and challenging pedagogical elements of the OOC?
3. What was the impact of the OOC for trauma-informed practice on teacher instructional practices during the pandemic?

## Method

This study employed a qualitative research approach to explore the impact of the TIBS program at two primary schools in Queensland, Australia. The asynchronous TIBS program aimed to enhance educators' trauma-informed practices during COVID-19, with support from a "program champion"—a teacher who collaborated with program developers to facilitate the implementation. The qualitative design was chosen for its ability to capture the multifaceted experiences of educators as they navigated the complex educational demands during the pandemic.

The TIBS program offered trauma-informed training through four asynchronous online modules (Krishnamoorthy & Ayre, 2021; Table 1), each taking 60 to 90 minutes, with pandemic-related supplementary content. Participants completed the training within three months.

**Table 1**

*Modules and Supplementary Materials for the Trauma-Informed Behaviour Support Program's Open Online Course*

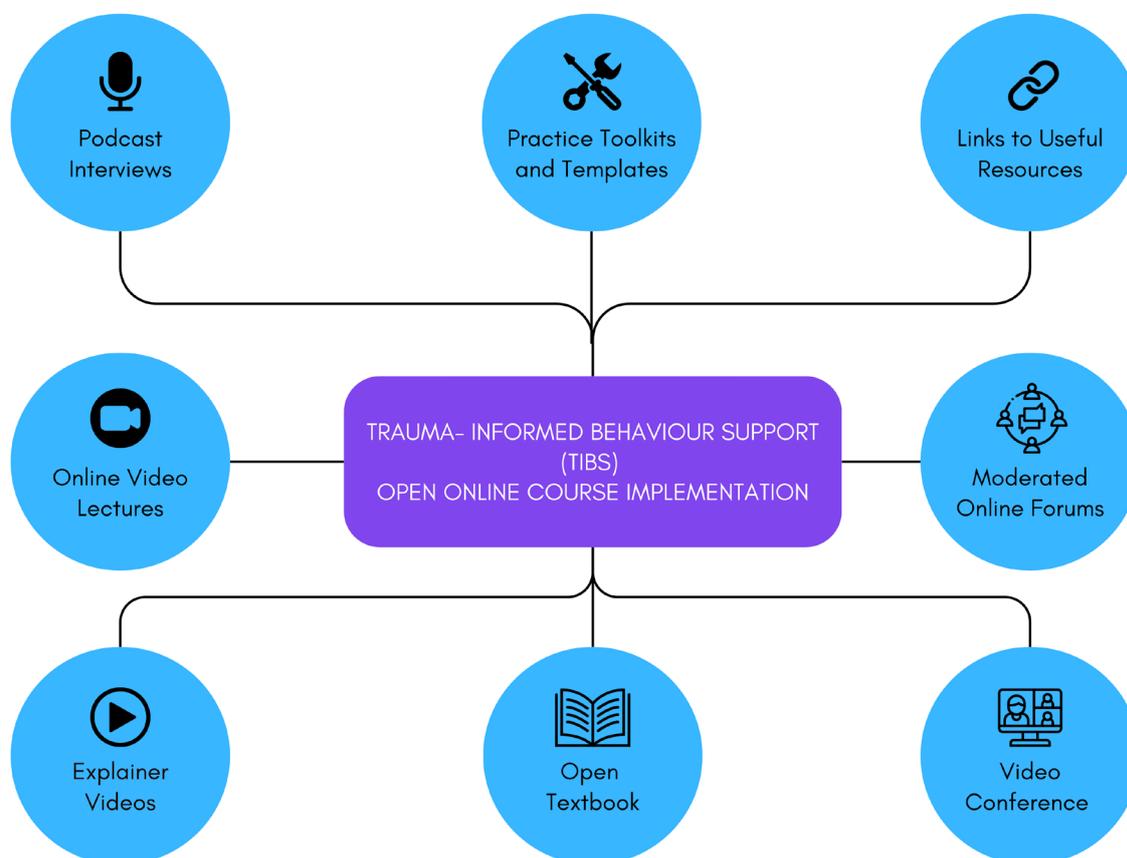
Module title	Description of module content	Description of COVID-19 supplementary materials
Module 1: Understand and Empathize	The module introduces educators to the influence of social determinants and mental health on learning and school functioning. The module provides educators with strategies to understand and respond to basic needs, as well as needs for physical and psychological safety.	Supplementary content (Module: Care) highlights how pandemics have disproportional impacts on marginalized students and their families—with restrictions compounding pre-existing structural inequalities.

Module 2: Prevent and Contain	The module introduces educators to the impacts of trauma on brain development and physical arousal. A framework known as the window of tolerance is investigated in relation to managing escalated behaviours.	This section (Module: Calm) provides guidance on the role of health-related anxiety and pandemic-related restrictions on the learning and well-being of students. Guidance is also provided on managing the teacher’s own arousal in response to the pandemic, and its impact on attuning to student mental states.
Module 3: Connect and Validate	This module emphasizes the necessity of establishing trust and rapport with vulnerable students. Ideas on the influence of trauma on the experience and responsiveness of positive reinforcement are discussed.	The supplemental content (Module: Connect) provides in this module focuses on the impact of increased stress on students and teachers during the pandemic, and its role in amplifying pre-existing relational vulnerabilities in student–teacher relationships.
Module 4: Teach and Reinforce	Educators are introduced to the specific impacts of exposure to traumatic experience on attention, motivation, executive functioning, mood, and engagement. Whole-of-school and classroom-based accommodations for academic and social-emotional learning are introduced.	This section (Module: Coach and Collaborate) introduces teachers to the impact of health messaging during a pandemic and its impact on students with learning difficulties.

Figure 1 depicts the pedagogical elements and implementation strategies of the TIBS OOC. The course content, which included multimedia elements such as podcasts, toolkits, video lectures, and forums, provided theoretical and practical tools for trauma-informed practices. These components were designed to support implementing these practices in educational settings. For instance, podcast interviews with experts offered insights into trauma-informed education, while practice toolkits provided step-by-step guides for applying these strategies in schools. Online video lectures and explainer videos clarified key concepts, making them accessible and engaging for participants. The course also featured an open textbook that served as the primary reading material, along with video conference support meetings to facilitate real-time discussions and collaborative learning among participants.

**Figure 1**

*Pedagogical Elements and Implementation Strategies of the Trauma-Informed Behaviour Support Program's Open Online Course*



## Setting

The study was conducted at two public primary schools in Queensland's West Moreton region, each serving over 1,000 students from Prep (with students typically aged 4 years) to Year 6 (with students aged 11 years) and employing more than 60 teaching staff. Both schools had an Index of Community Socio-Educational Advantage value of 937, below the average school value of 1000, indicating lower educational advantage compared with the national average. The student populations faced significant challenges, with over half of the families in the bottom socio-economic quartile and 52% of students speaking a language other than English at home. These socio-economic factors contributed to developmental vulnerabilities among the students, prompting the schools to implement wide-ranging behavioural interventions to address the social-emotional needs of their students.

The COVID-19 pandemic significantly disrupted education systems worldwide, necessitating a rapid shift to remote learning. In Australia, prolonged school closures risked long-term educational disengagement and persistent disadvantage for vulnerable students (Drane et al., 2020). In early 2020, the first wave of COVID-19 led to the lockdowns and closure of schools across Australia, marking the beginning of a rapid and, for many, chaotic transition to remote learning. Teachers were suddenly tasked with designing and delivering lessons online, often with minimal preparation time and inadequate digital infrastructure. By mid-2020, during the time of the OOC being disseminated, many

educators reported high levels of stress and burnout, as the demands and the uncertainty surrounding the pandemic continued. The chronic nature of the disruptions led to a “COVID hangover,” where the lingering effects of the pandemic—including anxiety, decreased student engagement, and challenges in maintaining academic progress (Drane et al., 2020). The educators completed the OOC between March and May 2020. The return to in-person learning in late 2020 and early 2021 did not fully alleviate these issues, as both students and staff struggled to readjust to the classroom environment after months of remote interaction.

## **Procedure**

The research was conducted following approval from the the University of Southern Queensland (USQ) Human Research Committee (application ID: H21REA031). In-depth interviews were conducted by student researchers with the educators of the participating schools. Online interviews were conducted, and video recorded via the teleconferencing software Microsoft Teams. Interview lengths varied between approximately 30 to 60 minutes, averaging 37 minutes. Upon completion of the interview, each participant was offered to have their transcript sent for review; however, all participants declined. It is important to note that the program developers were not involved in the interviews. The questions were based on trauma-informed education and practices, and the educator’s experience with asynchronous online courses. The appendix details the questions posed to participants to guide the semi-structured interviews. Participation in the program evaluation was voluntary. After completing the course, participants were invited via email to schedule an interview to discuss their experience of the OOC.

## **Participants**

Study participants included 26 female primary school educators from the public system. While both male and female educators were invited to participate in the study, only female educators chose to participate in the research. Twenty-two participants held a bachelor’s degree, while four held a Master of Education. The average participant age was 45, with the youngest being 26 years and oldest being 58 years. Teaching experience was diverse, with an average of 11 years working with children and 12 years in the profession. In-depth interviews were conducted with the educators participating in the OOC in June 2020. To ensure that participants had fully completed the course, we used an online analytics platform to track their progress before they were invited to participate in the interviews. Participants were given the option to review their transcripts, but all declined.

## **Semi-Structured Interviews**

Semi-structured interviews used employed as the primary qualitative measurement tool, allowing participants to elaborate on their responses. The interview questions, provided in Appendix A, were designed to explore educators’ experiences with trauma-informed education and the OOC. Interviews commenced with open-ended questions, allowing a balance between planned conversation and deviation toward impromptu points of relevance and specific beliefs of participants (Chafouleas et al., 2019; Shernoff et al., 2017). Supplementary probes were used as required to uncover valuable insights. Interviews were recorded for transcription. Transcriptions were generated using automatic speech recognition function and subsequently reviewed for accuracy by the researchers.

## **Reflexivity and Analytic Approach**

The analysis of the interviews was conducted by student researchers completing the research as part of post-graduate course requirements. To ensure rigour in coding, each student researcher completed coding of the data independently first, followed by a process of working together to develop the final

themes and codes. The student researchers were supervised by the lead researchers. Recognizing the inherent power dynamics in the supervisor-student researcher-participant relationship, both the student researchers and supervisor maintained a reflexive stance by documenting our thoughts and decisions in a reflexive journal and engaging in discussions periodically as a team. Discussions of experiences working in and with schools, personal experiences of the educational system and reflections on the impact of COVID-19 informed the reflexive acknowledge in the analysis of the interview data.

Thematic analysis methodology (Braun & Clarke, 2020) was employed to identify common themes. This approach includes five steps: becoming familiar with the data; generating codes; constructing themes; reviewing, defining, and naming themes; and producing the report (Braun et al., 2018). Interviews were uploaded to a secure automatic speech recognition application, where captions were reviewed. Themes were aligned with the research questions. Two coding cycles were conducted: initial coding to interpret commonalities and pattern coding to highlight key themes.

## Findings

Table 2 displays the four overarching themes that emerged from the analysis: the feasibility of the OOC; trauma-informed pedagogical affordances; impact on instructional practice; and sustaining OOC-based teacher education on trauma-informed practice (see Table 2). These themes reflect both the benefits and the challenges of using OOCs for teacher education during the COVID-19 pandemic. The findings also underscore the complexities of applying trauma-informed practices in schools with a high number of students facing complex psychosocial needs, especially amid the demands and restrictions imposed by the pandemic.

**Table 2**

*Themes and Sub-Themes of Using Open Online Courses (OOCs) for Teacher Education*

Theme	Description	Sub-themes
Feasibility of the OOC	The viability of OOCs for teacher education during the pandemic	- Navigating the digital divide - Making time for learning
Trauma-informed pedagogical affordances	Trauma-informed care considerations in the design and implementation of the OOCs	- Learning about complex and sensitive topics online - Creating collaborative online support networks
Impact on instructional practice	The benefits and drawbacks of technology-mediated learning for implementing trauma-informed practice	- Trauma-sensitive virtual classroom management techniques - Discovering intersectional student needs
Sustaining OOC-based teacher education on trauma-informed practice	Requirements for long-term access to OOC and integration of trauma-induced practice acquired through OOCs	- Ecological systems view of student needs and multitiered trauma-induced practice - Ongoing support for hyflex approaches to teacher education

## **Theme: Feasibility of the Open Online Course**

While teachers recognized the potential of the TIBS OOC to enhance trauma-informed practices, their engagement with the course was affected by their access to technology, their home life demands, and course accessibility.

### ***Sub-Theme: Navigating the Digital Divide***

Teachers reported a significant digital divide among students, families, and even themselves. One teacher remarked, “We had to think outside the box with our lessons. Most families couldn’t afford the latest gadgets, and some kids had never even used a computer before.”

This sentiment was echoed by another participant who noted, “Many of my students didn’t have their own computers or reliable Internet. Some were trying to work on laptops that just didn’t cut it.” Teachers, too, faced challenges adapting to the new technology demands. As one teacher shared, “Honestly, a lot of us were struggling as much as the kids with the tech. Some of us didn’t even know how to set up a Teams meeting, and, well, the Internet was often pretty patchy.” Technical issues often took more time than teaching as one participant noted,

“There were days when I spent more time fixing tech problems than actually teaching. It felt like we were always playing catch-up.” Despite these hurdles, many teachers praised the course’s accessibility and multimedia resources, including videos, podcasts, and practical toolkits. “I liked that the course moved smoothly from one video to the next, and it was helpful that they previewed what was coming up, whether it was a reading or a podcast,”

one teacher said, adding, “The podcasts were great—I could listen on my morning walks or while doing [other tasks].”

### ***Sub-Theme: Making Time for Learning***

The pandemic significantly affected participants’ ability to engage with the OOC, particularly for those balancing professional and caregiving responsibilities. All participants were women and mothers, and the disproportionate burden of caregiving during COVID-19 impacted their capacity to focus on the course. One participant explained, “I was juggling teaching my own kids, helping out with online classes, and caring for my elderly dad. I just didn’t have the energy left to sit down and study.” Another teacher shared,

Caring for my family was my top priority. With my husband working long hours at home and my kids home from school, I felt like I was in survival mode ... the course was something I’d try to squeeze in whenever I could.

The intersection of professional and personal responsibilities meant the course often took a backseat to more immediate concerns. This experience highlights the need for professional development opportunities that are not only flexible but also sensitive to the unique challenges faced by educators during times of crisis.

## **Theme: Trauma-Informed Pedagogical Affordances**

Trauma-informed pedagogical strategies in online courses are increasingly recognized as essential for effectively teaching sensitive topics. Learning about trauma can evoke emotional responses, creating barriers to learning, especially in online environments where interaction is limited.

### ***Sub-Theme: Learning About Complex and Sensitive Topics Online***

Videos presenting real-life scenarios through dramatic enactments helped bring the content to life, making it more relatable for teachers. One participant noted, “The videos where the presenters shared their stories made everything more relatable and helped me see how I could apply these strategies with my students.” However, the emotionally charged content sometimes stirred up difficult feelings, as one teacher shared, “I found myself reflecting on my students and feeling a sense of grief for what they might be dealing with at home.”

The course addressed these emotional aspects by providing regular reminders about available support, such as school counsellors and external mental health resources. “There were moments when the content hit close to home, but having the option to stop and talk to the school counsellor was helpful,” one participant explained. This support was crucial for educators dealing with their own trauma or pandemic-related stress, although some expressed a desire for face-to-face discussions to process their reactions. Many teachers also found the course unexpectedly beneficial for personal growth. As one teacher reflected, “Some of the topics really resonated with my own experiences. I realized that some of the strategies we’re taught for students could actually help me deal with my own stress.”

### ***Sub-Theme: Creating Collaborative Online Support Networks***

The peer support networks fostered through the OOC were particularly valuable during the pandemic, providing teachers with the necessary support to navigate the rapidly changing educational landscape. Participants appreciated the online forums and weekly Teams meetings, where they could discuss the course and share experiences. One teacher remarked, “I found it helpful to connect with other teachers and brainstorm how to apply what we were learning in our classrooms.”

These discussions extended beyond course content, offering a space to share personal challenges related to the pandemic. As one participant put it, “The forums and Teams meetings weren’t just about the course. It was comforting to know I wasn’t the only one struggling.”

For teachers with family members at higher risk during the pandemic, these peer support networks provided a sense of understanding and solidarity. “My kids have respiratory conditions, and I was really anxious about everything. It helped to hear from another teacher in a similar situation,” one participant shared. The collaborative atmosphere fostered resilience among educators, enabling them to support one another in both professional and personal capacities.

## **Theme: Impact on Instructional Practice**

The OOC provided educators with a range of evidence-based strategies for managing virtual classrooms. The supplementary modules guided educators on the use of these strategies in line with trauma-informed care principles, as well as accommodating for the constraints and impacts of the pandemic.

### ***Sub-Theme: Trauma-Informed Virtual Classroom Management***

Teachers found proactive strategies, such as setting clear routines and incorporating regular breaks, particularly beneficial. One teacher noted, “I found the idea of setting clear, consistent routines in the virtual classroom useful. It gave the students a sense of stability.” Others appreciated the emphasis on mindful communication, with one participant saying, “Simple things like slowing down, using encouraging language, and being mindful of tone made a big difference.”

However, some teachers felt the course could have provided more guidance on challenging situations. One teacher explained, “The strategies were a great start, but sometimes I wasn’t sure if I was doing enough to support my students emotionally while also meeting curriculum demands.” This comment reflects the tension between academic requirements and social-emotional support, particularly in the online setting. The reduced capacity to attune to children’s emotional states online made this balance even more challenging. As one participant noted, “It was hard to gauge how the kids were feeling or how engaged they were. Sometimes it felt like I was missing the subtle cues I’d pick up on in a physical classroom.”

### ***Sub-Theme: Discovering Intersectional Student Needs***

Intersectionality, which refers to how various social identities (such as race, class, disability, and gender) intersect to create unique experiences of discrimination or privilege, became increasingly relevant during this period. The pandemic highlighted the intersectional challenges faced by students from diverse backgrounds, particularly those with disabilities or other learning needs. Educators became more aware of the multiple, intersecting challenges their students faced. One teacher observed, “It became clear that some students are struggling not just because of the schoolwork, but because they’re dealing with other things at home.”

The shift to online learning provided educators with a window into their students’ home lives, revealing the stressors many children faced. As one teacher reflected, “Seeing students in their home environments was confronting. It highlighted why trauma-informed practices are so necessary.” While the OOC did not explicitly address intersectionality, educators applied trauma-informed practices to better understand and respond to these complexities.

## **Theme: Sustaining Teacher Education on Trauma-Informed Practice Acquired Through Open Online Courses**

OOC-based teacher education on trauma-informed practice requires an integrated approach that addresses the interconnected challenges faced by the entire school community, recognizing that both student and teacher well-being are linked.

### ***Sub-Theme: Holistic View of Student Needs and the Need for Multi-Tiered Trauma-Informed Practice***

Educators recognized that challenges at home, in the community, and at school shape students’ experiences. One participant noted, “Understanding that students are dealing with challenges at home, in their neighbourhoods, and within the school itself has made me rethink how we approach education.” The pandemic further highlighted the interconnectedness of these factors, revealing how stressors in one area can ripple through others, affecting both students and educators. “COVID-19 has shown how interconnected everything is. The stress from home, the lack of resources, and even our own mental health as teachers all affects our students,” one teacher explained.

### ***Sub-Theme: Ongoing Support for Hyflex Approaches to Teacher Education***

Participants expressed a desire for future courses to continue offering flexible training options, combining in-person sessions with online modules, including live Teams meetings. “Having different ways to access the training was really helpful,” one teacher said, adding, “The ability to choose how and when to engage with the content made it easier to fit the training into my schedule.” This flexibility was seen as vital for managing the demands of busy schedules while enhancing engagement with the

content. As one participant noted, “With all the challenges we’ve faced during COVID-19, having different ways to access the training was crucial. I hope we continue to have these options.”

## Discussion

This study aimed to evaluate the impact of the TIBS OOC as a professional development tool for educators during the COVID-19 pandemic. Designed to address the heightened stressors faced by students and teachers, the OOC sought to equip educators with the knowledge and skills necessary to implement trauma-informed practices in virtual classrooms. The findings contribute to the broader discourse on trauma-informed education, highlighting the importance of flexibility in delivering such training during times of crisis. The research focused on three primary questions: the feasibility of delivering the OOC during the pandemic, the identification of beneficial and challenging pedagogical elements within the course, and the overall impact of the OOC on instructional practices.

### Feasibility of the Open Online Course

The feasibility of implementing the TIBS OOC as a teacher education tool during the pandemic was influenced by several factors, both challenging and advantageous. The rapid transition to online learning presented challenges such as limited technology access, poor Internet, and varied digital competence among educators (Chisadza et al., 2021). These challenges were particularly pronounced in rural and low-income areas, where the digital divide posed a significant barrier to consistent engagement with the course materials (Garland & Wotton, 2001). Additionally, educators with limited digital literacy faced steep learning curves, often requiring extra time and support to navigate the online environment effectively (Lai & Widmar, 2020).

The pandemic further strained the balance between professional and personal responsibilities, especially for women educators. The increased demands of remote teaching, coupled with the necessity of caring for children or elderly relatives at home, created significant time constraints (Kotowski et al., 2022). This finding aligns with existing research documenting how the pandemic disproportionately impacted women, intensifying their caregiving responsibilities and limiting their capacity to participate in professional development (Stefanova et al., 2021). Despite these barriers, strategies such as providing e-learning training support and fostering online learning communities helped some educators engage with the OOC, though time constraints remained a significant hurdle (Gosselin et al., 2016). The preference for a hybrid approach to professional development, such as the hyflex model, reflects a broader trend toward adaptable learning experiences tailored to individual needs (Kyei-Blankson et al., 2014). This adaptability is particularly relevant for trauma-informed education, as it accommodates the diverse personal and professional demands on teachers, especially those with caregiving responsibilities (Patterson et al., 2020).

### Pedagogical Design and Implementation Considerations

Table 3 presents a summary of the implications of the findings for trauma-informed online learning pedagogical design and implementation. The implications link directly to the findings on the OOC’s diverse pedagogical components (e.g., forums, multimedia resources) and to SAMHSA’s six trauma-informed principles. Multimedia resources were a notable strength of the OOC, offering diverse formats such as videos, podcasts, and interactive modules that enhanced engagement and allowed for personalized learning experiences (Al-Aghbari et al., 2021).

**Table 3**

*Trauma-Informed Considerations in Open Online Courses*

Principles for trauma-informed practice	Feasibility issues in access and use of online training	Pedagogical considerations in online training	Transfer of learning to practice	Supporting implementation and ongoing practice
Basic needs and safety	<ul style="list-style-type: none"> <li>- Ensure reliable Internet access and devices for all participants.</li> <li>- Provide technical support to prevent access issues.</li> </ul>	<ul style="list-style-type: none"> <li>- Include clear content warnings and allow opt-out options.</li> <li>- Use asynchronous modules to accommodate different comfort and pacing in completing modules.</li> </ul>	<ul style="list-style-type: none"> <li>- Encourage application of child safeguarding practices in the virtual classroom.</li> <li>- Provide ongoing support for managing emotional reaction to course / emotional burden.</li> </ul>	<ul style="list-style-type: none"> <li>- Provide accessible mental health resources to the participants.</li> <li>- Regularly check in on participants' learning and well-being.</li> </ul>
Trustworthiness and transparency	<ul style="list-style-type: none"> <li>- Clearly communicate course expectations and requirements.</li> <li>- Pilot and check all resources are easily accessible.</li> </ul>	<ul style="list-style-type: none"> <li>- Maintain options for timely communication with trainers throughout the course.</li> <li>- Provide clear learning objectives and rationale/intent.</li> </ul>	<ul style="list-style-type: none"> <li>- Assess and align course content with educators' professional goals and school policies.</li> <li>- Encourage safe, respectful, timely feedback on practice.</li> </ul>	<ul style="list-style-type: none"> <li>- Use participant feedback to refine course content.</li> <li>- Provide follow-up sessions to address ongoing concerns.</li> </ul>
Peer support	<ul style="list-style-type: none"> <li>- Facilitate online spaces for informal interaction (e.g., discussion boards, social media groups).</li> </ul>	<ul style="list-style-type: none"> <li>- Incorporate peer-to-peer learning opportunities (e.g., group projects, scheduled group Teams meetings).</li> </ul>	<ul style="list-style-type: none"> <li>- Encourage sharing of strategies and challenges among peers.</li> <li>- Use peer networks to reinforce learning and exemplary practice.</li> </ul>	<ul style="list-style-type: none"> <li>- Establish peer mentoring systems for ongoing support.</li> <li>- Create forums for continued professional exchange.</li> </ul>
Collaboration and mutuality	<ul style="list-style-type: none"> <li>- Provide collaborative tools (e.g., shared docs, online whiteboards) that are easy to use and accessible to all.</li> </ul>	<ul style="list-style-type: none"> <li>- Design group activities that promote discussions and mutual learning.</li> <li>- Prompt participants to co-create to suit their unique context.</li> </ul>	<ul style="list-style-type: none"> <li>- Foster a collaborative culture in the virtual classroom.</li> <li>- Encourage school team-based approaches to problem-solving, supported by program champions.</li> </ul>	<ul style="list-style-type: none"> <li>- Engage participants regularly in collaborative reflection sessions.</li> <li>- Promote shared leadership in implementation.</li> </ul>
Empowerment, voice, and choice	<ul style="list-style-type: none"> <li>- Offer multiple ways to engage with the content (e.g., live sessions, podcasts, interactive elements).</li> </ul>	<ul style="list-style-type: none"> <li>- Allow participants to choose their own learning paths and pace.</li> <li>- Use surveys to gather participant preferences and learning needs.</li> </ul>	<ul style="list-style-type: none"> <li>- Encourage educators to identify personal and professional strengths relevant to trauma-informed practice.</li> <li>- Provide coaching and tools for personalized application.</li> </ul>	<ul style="list-style-type: none"> <li>- Assess evolving learning needs of participants to inform professional development.</li> <li>- Review policies and procedures to support online education based on teacher feedback.</li> </ul>
Cultural, historical, and gender issues	<ul style="list-style-type: none"> <li>- Assess whether the content is respectful, representative, and relevant to diverse cultural and socio-economic backgrounds.</li> </ul>	<ul style="list-style-type: none"> <li>- Review that online material is culturally and linguistically responsive.</li> <li>- Use case studies from diverse contexts.</li> </ul>	<ul style="list-style-type: none"> <li>- Highlight the importance of culturally responsive practices in the classroom.</li> <li>- Encourage supported reflections on cultural implications.</li> </ul>	<ul style="list-style-type: none"> <li>- Provide access to cultural brokers and training for ongoing cultural competence development.</li> <li>- Support discussions on historical and gender issues on coping with workplace demands.</li> </ul>

The OOC's trauma-sensitive topics presented emotional challenges, with the virtual format limiting immediate emotional support and leaving teachers to process content alone. This experience is consistent with findings from previous research, which suggests that learning about trauma in isolated settings can heighten stress and emotional fatigue (Luthar & Mendes, 2020). The course design did attempt to mitigate these challenges by integrating exercises to promote reflexivity and providing access to supports both in and outside of the school. However, some participants reported that the online setting still exacerbated feelings of isolation and emotional burden, highlighting the need for more robust, real-time support mechanisms during trauma-informed training (Olson et al., 2021).

Peer support networks within the OOC were another beneficial element, facilitating collaborative learning and offering a space for educators to share experiences and strategies. This aligns with the value of virtual interaction and multidisciplinary collaboration in enhancing the learning experience (Scott et al., 2009). However, the lack of sufficient guidance for addressing complex student needs poses a significant challenge, reflecting broader concerns about the limitations of OOCs in providing comprehensive support for educators (OECD, 2017). Therefore, it is essential for educators to adopt a critical approach when implementing OOCs, ensuring that pedagogical design principles facilitate active collaboration and interaction while addressing the inherent limitations of online learning management systems (Al-Aghbari et al., 2021).

### **Impact of the Open Online Course on Teacher Instructional Practices**

One of the most significant outcomes of the OOC was the integration of trauma-informed strategies into daily instructional practices. Teachers found the course useful for establishing consistent routines and mindful communication, aligning with trauma-informed goals of creating safe, stable environments (Stokes, 2022). This approach was particularly crucial in the virtual classroom, where the lack of physical presence often made it more challenging to gauge student well-being. The OOC also heightened teachers' awareness of the broader ecological systems influencing student behaviour. Educators began to recognize the complex interplay between home environments, community contexts, and school expectations, particularly during the disruptive events such as the pandemic (Stribley et al., 2025). Supporting students from priority equity groups and those with intersectional identities, particularly during the pandemic and within online learning environments, emerged as a critical area requiring further guidance.

The OOC highlighted gaps in addressing the specific needs of students from culturally and linguistically diverse backgrounds and low socio-economic status families. Research indicates that students from these groups are disproportionately affected by the digital divide and face unique challenges in accessing and engaging with online learning (Evans et al., 2021). Educators noted the importance of explicit guidance on recognizing and responding to potential safety concerns in a virtual context, where traditional signs of distress might be less visible. Teachers also expressed concern over meeting curriculum requirements while addressing the social-emotional needs of their students. This tension is well-documented in the literature, where educators often struggle to balance fostering a supportive, trauma-informed environment with ensuring academic goals are met (Kataoka et al., 2018). While the OOC provided valuable strategies, teachers felt that more guidance was needed on integrating these practices without compromising academic standards.

Informal interviews conducted in June 2024 with six of the participants revealed that they continued to re-visit content from OOC periodically as they integrated trauma-informed practices into their classrooms. All the participants referred to new learnings from revisiting the content to support a

growing sophistication in the implementation of these practices. Three educators spoke of personalizing the implementation of trauma-informed practice based on individual student's strengths, interests, and preferences, while also adapting whole-of-class practices based on mix of academic and well-being needs of the students. These reflections suggest that OOCs can provide a foundation for sustained professional growth, while also being a resource for ongoing professional development and long-term success in supporting students.

### **Study Limitations and Future Directions**

The geographic focus on Australia and timing during the COVID-19 pandemic may limit the findings' generalizability. While these conditions are integral to understanding the impact of trauma-informed practices during a crisis, they also introduce variables that may not be present in more typical educational settings (Collier et al., 2022b; Watson et al., 2022). Future research should consider longitudinal studies to assess the long-term impacts of the TIBS program on both teachers and students. Investigating how trauma-informed practices evolve and sustain effectiveness over time would provide valuable insights into the durability of these interventions. There is also a need for more in-depth exploration of how trauma-informed practices can be integrated into hybrid and online learning environments, particularly as these modalities become more prevalent in post-pandemic education (Harper & Neubauer, 2020). Examining the effectiveness of different scaffolding strategies and support systems in these contexts could further refine the implementation of trauma-informed practices. For example, future research could investigate caregiver perspectives to better understand how home environments intersect with trauma-informed practices in online learning contexts.

### **Conclusion**

This study underscores the importance of trauma-informed practices, especially during crises. It highlights the need for clear routines, supportive environments, and flexible professional development to address diverse student needs. Virtual learning poses challenges in maintaining engagement and support. As educators, policymakers, and researchers continue to navigate the evolving educational landscape, it is imperative to prioritize the development and implementation of trauma-informed practices that are adaptable to diverse contexts. The insights gained from the OOC should inform the creation of flexible, accessible professional development opportunities that meet the varying needs of educators. Collaborative environments are crucial for sustaining trauma-informed practices across educational settings.

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## Appendix

### Interview Guide

1. Can you describe your teaching background and experience?
2. What motivated you to participate in the online course?
3. How did you find the process of accessing and navigating the online course? Were there any challenges?
4. How did you manage your time to engage with the online course? Did any factors make this easier or more difficult?
5. What aspects of the online course material and content did you find most relevant or helpful for your teaching practice?
6. Were there any parts of the course that were particularly challenging? How did you handle this?
7. Can you give examples of how you have applied what you learned from the online course in your classroom?
8. Have you noticed any changes in your students' behaviour or engagement since implementing trauma-informed strategies from the online course?
9. What support have you received to continue applying trauma-informed practices after completing the online course?
10. What recommendations do you have for improving the online course, especially in terms of long-term support for teachers?
11. Is there anything else you would like to add about your experience with the online course or the implementation of trauma-informed practices?

