Cultural adaptation of the mental health first aid guidelines for assisting a person at risk of suicide in Brazil: a Delphi expert consensus study

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Abstract

Background: Suicide is a major public health concern in Brazil, with nearly 115,000 Brazilians dying by suicide in 2010–2019. As support for individuals at risk of suicide may come from the community, particularly family and friends, it is fundamental that evidence-based programs or resources to improve such support are in place when needed. This study aimed to culturally adapt the mental health first aid guidelines for assisting a person at risk of suicide used in English-speaking countries for Brazil.

Methods: A Delphi expert consensus study was conducted among a diverse range of Brazilian health professionals and individuals with lived experience of suicide (n = 60). A total of 161 items from the mental health first aid questionnaire used in English-speaking countries were translated and used in the Brazilian questionnaire. Participants were asked to rate the appropriateness of those items to the Brazilian culture and to recommend any new items when appropriate.

Results: Data were collected over two survey rounds. Consensus was achieved on 145 items. While 123 out of 161 items were adopted from the English guidelines, 22 new endorsed items were created from the expert panel comments.

Conclusions: Even though there were similarities among the Brazilian and English-language guidelines, the adapted guidelines incorporated actions that were specific to the Brazilian culture, such as new items emphasising the role of family and friends. Further research is warranted on dissemination and uptake of the guidelines in Brazil as well as research into incorporation of the guidelines into Mental Health First Aid (MHFA) training for Brazil.

Keywords: Suicide, Mental health first aid, Cultural adaptation, Delphi study, Brazil
middle-income countries (LMICs) [2]. While suicide rates have decreased worldwide, with a 36% decrease between 2000 and 2019, this was not the trend in Latin America [2].

Even with suicide deaths being underreported and misclassified [4, 5], in Brazil, it is estimated that nearly 115,000 people died by suicide in 2010–2019, with a gradual increase (5.2 to 6.7 per 100,000) in suicide deaths over that period [6]. In 2019, young Brazilians (15–19 years) had the highest increase in suicide deaths (an 81% increase), with men being almost four times more likely to die by suicide compared to women (10.7 vs 2.9 per 100,000 individuals) [6].

Ecological studies conducted in Brazil showed that higher income inequality and higher socioeconomic status (such as higher levels of education) were related to a higher risk of suicide [7–9]. Another study conducted in the most populated city of Brazil (Sao Paulo) found other risk factors for suicide, such as relationship status (being single), migration status (being a migrant), and religious choice (being a Catholic) [8].

Evidence suggests that Latin America has culturally-specific dimensions that need to be considered to understand suicide in the region, including familism, machismo [10, 11], compadrazgo, and dignidad y respeto [11, 12].

It is argued that these cultural aspects may be shaping beliefs and behaviours related to suicide in the Latino culture [10]. For instance, familism advocates for a welfare system that places responsibility on the family members for financial and emotional support instead of the government, whereas machismo refers to a patriarchal society, where the man is responsible for providing for his family, and the woman is the head of the family unit [10]. Compadrazgo involves a “friendliness” that values warm and close friendships, which may be strengthened by exchanging favours, while dignidad y respeto promotes empathy and connection in relationships [11, 12]. These relationships are hierarchically formed (“hierarchy of deference”) with elders and parents higher than younger people [11].

Other key factors relevant to understanding suicidality in Latin American countries include the limited resources of the health system and the stigma associated with seeking help for suicide and mental health problems [10]. This may include stigmatizing attitudes towards people with mental health problems by primary healthcare professionals [13–15].

Fakuda et al. (2016) conducted a study, with more than 1000 children and adolescents (8–21 years old), in several states of Brazil that explored barriers to seeking help for mental health services. It was found that fear of stigmatization was the major barrier to seeking help for mental health treatment. Prejudice against individuals with mental disorders is a major barrier to accessing health care services [16]. A 2018 systematic review of pathways to mental health care in Brazil reported family as an important factor in identification, the decision to seek help, and the choice of the initial source of help for mental health issues [17]. Evidence suggests that community support, including from family and friends, can be a protective factor against suicide [18, 19].

In recognition of this, the Mental Health First Aid (MHFA) course was developed to train people in the general population on how to help a person who is developing a mental health condition or is in a mental health crisis (e.g., at risk of suicide) [20]. MHFA training is based on the First Aid model and incorporates an action plan that can be implemented until professional support is obtained or the crisis ends [20]. The MHFA program began in Australia in 2000 and has spread to over 25 countries [21]. The course is based on mental health first aid guidelines that have been developed through Delphi expert consensus studies with mental health professionals and people with lived experience [22–25]. The Delphi expert consensus is a method of incorporating practice-based evidence into evidence-based practice in a systematic manner when experimental and epidemiological methods are not feasible [26]. However, most of the participants in these Delphi studies have been from high-income settings, and the cultural appropriateness for LMICs is unclear. In an effort to ensure that the guidelines are appropriate, they have been culturally adapted for China [27], Sri Lanka [28], India [29], Philippines [30], and collaborations in Brazil, Chile, and Argentina have been formed [21].

This study aimed to culturally adapt the mental health first aid guidelines for assisting a person at risk of suicide used in English-speaking countries for Brazil.

Methods

The Delphi method

A two-round Delphi method was used in this study. The Delphi method transforms the experts’ opinions in a field into group consensus [26, 31, 32]. Our expert panel consisted of health professionals and people with lived experience of suicide. The panel rated whether statements from the English-language guidelines were appropriate to be included in the Brazilian guidelines and were also asked to suggest new items when appropriate.

This study occurred in four stages: (1) questionnaire development for the round 1 survey; (2) panel identification and recruitment; (3) data collection and analysis; (4) guidelines development.
Questionnaire development for the round 1 survey
The mental health first aid guidelines for assisting a person at risk of suicide used in English-speaking countries [33] were translated into the Portuguese language by one senior psychiatrist and four medical students. During translation, to improve readability and fluency in Portuguese, minor changes were made to some statements, such as: “The first aider should not assume that the person will get better without help” was translated into “O(a) socorrista não deve supor que a pessoa irá melhorar sem ajuda”, and “The first aider should ask the suicidal person if they have a plan for suicide” was translated into “O(a) socorrista deve perguntar à pessoa suicida se ela tem um plano para a suicídio”.

As per the English-language guidelines, the round 1 survey included 161 items divided into eight sections (an additional Table 1 shows this more in detail [see Additional file 1]).

Panel identification and recruitment
The expert panel consisted of health professionals and people with their own lived experience of suicide (also known as consumers) and carers. To be eligible, health professionals and consumers or carers had to be aged 18 years and have had experience with suicide (either personal, professional or as a carer).

Table 1  Characteristics of participants (n = 60)

| Item                  | Category                  | N  | %   |
|-----------------------|---------------------------|----|-----|
| Sex                   | Male                      | 15 | 25.0%|
|                       | Female                    | 41 | 68.3%|
| Occupation            | Health professionals      |    |     |
|                       | Psychologists             | 24 | 40.0%|
|                       | Nurses                    | 5  | 8.3% |
|                       | Medical doctors           | 4  | 6.7% |
|                       | Mental health researchers | 4  | 6.7% |
|                       | Occupational therapists    | 2  | 3.3% |
|                       | Social workers            | 1  | 1.7% |
|                       | Volunteers                | 10 | 23.3%|
|                       | Own lived experience      | 6  | 10.0%|
| Age (years)           | Range                     | 21–67|     |
|                       | Mean± SD                  | 42.9± 12.6|     |
|                       | Median                    | 42.5|     |

Participants that had professional and personal experience with suicide were assigned to the health professional group

a Missing data (n = 4)
b Includes one psychologist intern
c Includes three nurse assistants
d Includes medical doctors specialised in children and adolescents

A selective sampling method was used to recruit health professionals and consumers. Participants were recruited individually, except for individuals volunteering in a “Centro de Valorização da Vida” helpline (Brazilian suicide prevention non-governmental organisation; NGO), who were encouraged to share the survey link with peers working in the same position. In addition, a wide range of platforms for recruitment were used to increase diversity in our sample, including phone, WhatsApp, and social media groups from various non-governmental organisations focused on suicide prevention and suicide outpatient clinics in the city of Sao Paulo.

Data collection and analysis
Eligible participants were sent the survey link hosted by Survey Monkey (https://pt.surveymonkey.com/), which could be opened on a computer or a smartphone. The first page of the survey included information about the study. The following pages asked questions about age, sex, current occupation, and type of experience with suicide (professional, personal, or both).

The survey statements used a five-point Likert scale (1 = essential; 2 = important; 3 = depends/don’t know; 4 = not important; 5 = should not be included). Participants were asked to rate how important they believed each statement was for the inclusion in the Brazilian guidelines for someone providing mental health first aid to a person at risk of suicide. Using an open-ended text box at the end of every section, participants were also asked to comment on existing statements or propose new statements. If these were new, and actionable, these were written into items and included in the round 2 survey. In compensation for their time, participants received a small amount of financial compensation (R$100 Brazilian reals; the equivalent of US$20) after completing both rounds of the survey.

After Round 1, statements rated as essential or important by ≥80% of participants were immediately included in the guidelines. Conversely, if less than 70% of participants’ statements rated statements as essential or important at round 1, they were immediately excluded from the guidelines. Statements were re-rated in round 2 if they were rated as essential or important by 70–79% of all participants. These cut off values were based on previous studies of culturally adapted MFHA for helping a suicidal person [27–30]. Suggestions made after each section were refined by author AAL, reviewed by authors AVC, TAA, CHMP and added in round 2 for assessment, together with the items for re-rating.
Guidelines development
Endorsed statements, which were items rated as essential or important by ≥80% of the panellists at round 1, and ≥75% at round 2, to ensure sufficient new, culturally appropriate statements were included, were assembled into 10 sections. Duplicate statements or items without novel ideas were deleted. Ambiguous statements were re-worded and refined by two authors (SSR, NR) to improve clarity. The final list of included statements was circulated to the Brazilian team (AAL, SSR) native speakers to refine the wording and generate the final Brazilian guidelines. See the full document of the guidelines in the Additional file 2.

Results
Expert panel information
A total of 60 participants (female 68%) completed the round 1 survey, and 40 of them participated in round 2 (retention rate = 67%). The socio-demographic characteristics of panellists are shown in Table 1. The panelists were aged 21–67 years (mean ± SD = 42.9 ± 12.6, median = 42.5). There were 40 health professionals, including psychologists (n = 24), nurses (n = 5), medical doctors (n = 4), mental health researchers (n = 4), occupational therapists (n = 2), and one social worker. Another 14 participants were mental health volunteers of Brazilian suicide prevention NGOs, such as Sociedade Amigos da Vida (https://sociedadeamigosdavida.org.br/) and Centro de Valorização da Vida (https://www.cvv.org.br/). A total of six people only had lived experience in suicide; however, several panellists had multiple roles in the field (e.g., medical doctors also working as mental health researchers and psychologists volunteering for mental health NGOs).

Rating of statements
Consensus was reached on 145 statements for inclusion in the culturally adapted mental health first aid guidelines for Brazil after two survey rounds [see Additional file 1]. The statements were divided into 10 sections in providing mental health first aid to a person at risk of suicide in Brazil: (1) Identification of suicide risk; (2) Assessing seriousness of the suicide risk; (3) Initial assistance; (4) Talking with a suicidal person; (5) No-suicide contracts (safety planning); (6) Ensuring safety; (7) Passing time during the crisis; (8) What the first aider should know; (9) Confidentiality; (10) Adolescent specific items. The number of items included, excluded, re-rated, and endorsed in both rounds is shown in Fig. 1.

Fig. 1 Overview of the study rounds
A total of 161 items were rated in the round 1 survey, with 102 being endorsed, 38 re-rated, and 21 excluded. Examples of re-rated and excluded items are ‘The first aider should ask the suicidal person if they have ever known anyone who has died by suicide’ (endorsement rate = 72%) and ‘The first aider should ask the suicidal person if they have ever made a suicide plan in the past’ (endorsement rate = 65%), respectively (an additional Table 1 shows round 1 items and ratings [see Additional file 1]). Re-rated items, combined with another 47 new items created from participants’ comments, were included in round 2. Of these 85 items, 43 items were endorsed and 42 excluded (an additional Table 2 shows round 2 items and ratings (see Additional file 1)). A total of 145 were endorsed to the final guidelines (an additional Table shows the full list of endorsed items [see Additional file 1]).

Similarities and differences between the English-language and Brazilian guidelines

Beyond including 123 out of 161 items (76%) of the guidelines for English-speaking countries, the Brazilian guidelines included 22 new endorsed items created from the comments of the expert panel. These new endorsed items in the Brazilian guidelines were as follows:

- For ‘Section 1: Identification of suicide risk’ (n = 1)
  1) The first aider should try to talk to the person in a quiet and private place.

- For ‘Section 3: Initial assistance’ (n = 4)
  2) The first aider should talk to the suicidal person’s family to try to help and follow up the suicidal person, and not let them feel alone.
  3) The first aider should make contact with the family/support network.
  4) The first aider should check the support networks the person has.
  5) The first aider should ask the person what other resources they have to resolve their pain.

- For ‘Section 4: Talking with a suicidal person’ (n = 7)
  6) The first aider should say they are there to listen without judgement.
  7) The first aider can empathically ‘validate’ the person’s feelings in a suicidal moment, such as “you must be suffering a lot” or “it must be very difficult this moment” making it easier for the suicidal person to talk.

- For ‘Section 5: No-suicide contracts (safety planning)’ (n = 3)
  8) The first aider should have a welcoming listening style and point out the suffering. It is the suffering that needs to disappear, not the life. It is important to understand the person’s suffering.
  9) The first aider should use common terms that can be easily understood by the person.
 10) The first aider should check with the suicidal person if they went through a difficult time, if there was any feeling of rejection and what was the reason they felt rejected.
 11) The first aider should not confront the suicidal person.
 12) The first aider should not mock the person or expose the person to ridicule.

- For ‘Section 6: Ensuring safety’ (n = 1)
  13) If possible (and if the suicidal person allows), present and discuss the safety plan with someone close to the suicidal person.
  14) Encourage the person to seek help from someone they trust or from the CVV* (*Centro de Valorização da Vida = Brazilian suicide prevention NGO).
  15) The first aider should check whether the safety plan can be shared with family, friends, or people who the suicidal person trusts that can help.

- For ‘Section 7: Passing time during the crisis’ (n = 1)
  16) The first aider should guide the family to remove objects from the house that could facilitate suicide.

- For ‘Section 8: What the first aider should know’ (n = 3)
  17) The first aider should ask the person who they enjoy talking to.
  18) The first aider should be aware that themselves may need psychological assistance after the intervention.
The study aimed to culturally and linguistically adapt the mental health first aid guidelines for helping a person at risk of suicide used in English-speaking countries for Brazil. A two-round Delphi expert consensus method was used and, to our knowledge, this was the first study of its kind conducted in Brazil. While the similarity between the English-language and Brazilian guidelines was modest (76% of English-language statements were endorsed by Brazilian experts), some key differences specific to Brazilian culture were found.

**Explicit use of the term ‘suicide’ and discussing actions for help-seeking**

The English-language items using the term ‘suicide’ or discussing with the suicidal person actions for them to get help, such as “The first aider should demonstrate appropriate language when referring to suicide by using the terms ‘suicide’ or ‘died by suicide’” and “If the suicidal person is known to have a diagnosis of a mental illness, the first aider should discuss with the suicidal person what actions they should take to get help”, were not endorsed in the Brazilian guidelines (ratings were 65 and 62%, respectively). Similar to the recently adapted suicide first aid guidelines for Sri Lanka [28], it is possible that these items received low ratings because of stigmatising attitudes towards suicide and reluctance to openly discuss it [34, 35], as evidence shows that stigma towards mental health problems is present among health professionals in Brazil [13, 14, 36].

Items from the English-language guidelines that involved the first aider asking direct questions to the suicidal person were excluded from the Brazilian guidelines. It is possible that these items were not endorsed as, in the Brazilian culture, there is a tendency not to ask direct questions to avoid conflicts in conversations [37].

Even though some adolescent-specific items from the English-language guidelines were endorsed in the Brazilian guidelines, a few other items were not endorsed, such as “If the suicidal adolescent can’t commit to stay safe, the first aider should discuss with the suicidal adolescent what actions they should take to get help” (rating = 68%). It is possible that these items were excluded by panelists as the Latin American culture has a “hierarchy of deference” placing more value and respect on elders than younger people [11, 12], which may be reflected in the lack of discussions with adolescents.

**The role of family and friends**

Various new items created from panellists’ comments highlighted the importance of family and friends in the Brazilian adapted guidelines. Examples of these items were “The first aider should talk to the suicidal person’s family to try to help and follow up the suicidal person, and not let them feel alone” and “The first aider should check whether the safety plan can be shared with family, friends, or people who the suicidal person trusts that can help”. It is possible that these items reflect the idea of familism (a welfare system that places responsibility on the family) in the region [10], as well as the role of the family in the

19) The first aider should know that suicidal people who use drugs become more impulsive.

20) The first aider needs to know how to deal with the situation so as not to feel guilty if they cannot help the person.

- For ‘Section 9: Confidentiality’ (n = 1)

21) The possibility of a breach of confidentiality in case of risk must be disclosed.

- For ‘Section 10: Adolescent specific items’ (n = 1)

22) Welcome and let the adolescent talk about everything that is concerning them.

Overall, 38 out of 161 (24%) items from English-language guidelines were excluded (round 1 and 2). Most of these items were related to: (1) The first aider using the term suicide, such as in items “The first aider should ask the suicidal person if they have a plan for suicide” (rating = 63%) and “The first aider should demonstrate appropriate language when referring to suicide by using the terms ‘suicide’ or ‘died by suicide’” (rating = 65%); (2) The first aider discussing with the suicidal person actions they should take to get help (e.g.: “If the suicidal person is known to have a diagnosis of a mental illness, the first aider should discuss with the suicidal person what actions they should take to get help” (rating = 62%), “If the suicidal person does not agree to give the first aider the things they intend using to kill themselves, the first aider should discuss with the suicidal person what actions they should take to get help” (rating = 58%)); (3) The first aider asking direct questions to the suicidal person, such as “The first aider should ask the suicidal person if they have decided when they will carry out their plan” (rating = 60%) and “The first aider should ask the suicidal person if they have ever known anyone who has died by suicide” (rating = 57%); (4) The first aider discussing actions for help seeking with the suicidal adolescent, such as “If the suicidal adolescent can’t commit to stay safe, the first aider should discuss with the suicidal adolescent what actions they should take to get help” (rating = 68%).

**Discussion**

The study aimed to culturally and linguistically adapt the mental health first aid guidelines for helping a person at risk of suicide used in English-speaking countries for Brazil. A two-round Delphi expert consensus method was used and, to our knowledge, this was the first study of its kind conducted in Brazil. While the similarity between

(continued)
initial stages of help-seeking for mental health difficulties [17]. The importance of friends was also reflected in the adapted guidelines, in line with evidence highlighting the importance of friendship in protecting against suicide in the Brazilian culture [38].

Self-care of suicide first aiders
The proposed new item “The first aider should be aware that they themselves may need psychological assistance after the intervention” and the item from the English-language guidelines “The first aider must keep in mind that they may not be successful in preventing suicide” were highly endorsed by panellists (endorsement rates were 95 and 93%, respectively). It is likely that these items were highly endorsed as families may go through “a state of shock” and guilt after a family member suicides [39]. It may also emphasise the importance of postvention for those affected by suicide [40].

Considerations for future use of the adapted guidelines
This study involved collecting views and opinions from health professionals and individuals with lived experience of suicide in Brazil to adapt the English language guidelines for helping a person at risk of suicide. In doing so, findings showed a modest degree of endorsement of the items in the English-language guidelines, supporting the importance of the guidelines and their adaptation to a different culture. These guidelines may be used to inform MHFA training programs in Brazil. The program may also be useful to reduce stigma in the general population as well as among mental health professionals. It is important, though, to consider further testing and adaptation in the implementation stage of the training within the Brazilian health care system.

Strengths and limitations
This study had some strengths: firstly, there was a diverse range of health professionals for the expert panel, which ensured diversity in the opinions collected. Secondly, several health professionals also had lived experience of suicide, with one-quarter of the sample being composed of volunteers in suicide prevention organisations. Studies that incorporate the views of people with lived experience are less common in Brazil than in high-income countries and may play a critical role in building capacity in advocacy movements.

A major limitation in this study was that the ratings for the health professionals and the individuals with lived experience were combined in the analysis of Round 1 study data, meaning that information related to rating differences between groups were lost, including information related to the dropout rate from round 1 to round 2.

Conclusions
A Delphi expert consensus study involving local health professionals and people with lived experience was used to adapt the mental health first aid guidelines for assisting a person at risk of suicide in Brazil. Even though similarities were found to the English-language guidelines, various items related to the explicit use of the term ‘suicide’ and discussing actions for help-seeking were excluded. The adapted guidelines included new items related to family and friends and the self-care of suicide first aiders. Further research on dissemination and uptake of the guidelines in Brazil is necessary as well as research into incorporation of the guidelines into MHFA training for Brazil.

Abbreviations
LMICs: Low- and middle-income countries; MHFA: Mental Health First Aid; NGOs: Non-governmental organisations.

Supplementary Information
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Authors’ contributions
AAL, AVC, TAA, and CHMP implemented the study, including developing questionnaires, recruiting panel members, and administering the Delphi rounds. SSR analysed the data under NR supervision. SSR drafted the manuscript. NR read and edited the first draft of this paper. All authors read and approved the final manuscript.

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Availability of data and materials
The data supporting our findings is attached as the Additional file 1, which contains all the items that were presented to panellists, including their endorsement rates.

Declarations
Ethics approval and consent to participate
The research was approved by the Human Research Ethics Committee at the University of Melbourne (HREC No.1852131.1) and Ethics Review Committee of the University of Sao Paulo (Approval No. 200171915.0000.0068). All research was conducted in accordance with the National Health and Medical Research Council’s National Statement on Ethical Conduct in Human Research and the Declaration of Helsinki. Participants were given a detailed plain language statement prior to participation and all of them provided online informed consent for participation.
Consent for publication
This manuscript does not contain data relating to any individual participants. The plain language statement confirmed to participants that only aggregate data would be presented in publications.

Competing interests
The authors declare that they have no competing interests.

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References
1. World Health Organization: Suicide: key facts. 2021.
2. World Health Organization. Suicide worldwide in 2019: global health estimates. Geneva: World Health Organization; 2021.
3. World Health Organization: Global Health estimates 2020: disease burden by cause, age, sex, by country and by region, 2000–2019. 2020.
4. McDonald K, Machado DB, Castro-de-Araujo LF, Kiss L, Palfreyman A, Barreto ML, et al. Trends in method-specific suicide in Brazil from 2000 to 2017. Soc Psychiatry Psychiatr Epidemiol. 2021;56(10):1779–90.
5. Snowdon J, Choi NG. Undercounting of suicides: where suicide data lie hidden. Glob Public Health. 2020;15(12):1894–901.
6. Ministério da Saúde. Boletim epidemiológico: mortalidade por suicídio e notificações de lesões autolíticas no Brasil, vol. 33. Brazil: Secretaria de Vigilância em Saúde; 2021.
7. Bando DH, Lester D. An ecological study on suicide and homicide in Brazil. Ciência Saúde Coletiva. 2014;19:1179–89.
8. Bando DH, Moreira RS, Pereira JC, Barrozo LV. Spatial clusters of suicide in the municipality of Sao Paulo 1996–2005: an ecological study. BMC Psychiatry. 2012;12(1):1–8.
9. Machado DB, Rassela D, Dos Santos DN. Impact of income inequality and other social determinants on suicide rate in Brazil. Plos One. 2015;10(4):e0124934.
10. Mascayano F, Irazabal M, Emilia WD, Shah B, Vaner SJ, Sapag JC, et al. Suicide in Latin America: a growing public health issue. Rev Fac Cien Med Univ Nac Cordoba. 2015;72(4):295–303.
11. Mascayano F, Tapia T, Schilling S, Alvarado R, Tapia E, Lips W, et al. Stigma toward mental illness in Latin America and the Caribbean: a systematic review. Braz J Psychiatry. 2016;38:73–85.
12. Abdulllah T, Brown TL. Mental illness stigma and ethnocultural beliefs, values, and norms: an integrative review. Clin Psychol Rev. 2011;31(6):934–48.
13. Botega NJ, Silveira GM. General practitioners’ attitudes towards depression: a study in primary care setting in Brazil. Int J Soc Psychiatry. 1996;42(3):230–7.
14. Ronzani TM, Higgins-Biddle J, Furtado EF. Stigmatization of alcohol and other drug users by primary care providers in Southeast Brazil. Soc Sci Med. 2009;69(7):1080–4.
15. Vistorte AOR, Ribeiro W, Ziebold C, Azevedo E, Evans-Lacko S, Keeley JW, et al. Mari JdJ: clinical decisions and stigmatizing attitudes towards mental health problems in primary care physicians from Latin American countries. Plos One. 2018:13(11):e0208759.
16. Fukuda CC, Penso MA, Amparo DM, Almeida BC, Morais CA. Mental health of young Brazilians: barriers to professional help-seeking. Estudos de Psicologia (Campinas). 2016;33:355–65.
17. Amaral CE, Onocko-Campos R, de Oliveira PRS, Pereira MB, Ricci EC, Pequeno ML, et al. Systematic review of pathways to mental health care in Brazil: narrative synthesis of quantitative and qualitative studies. Int J Ment Health Syst. 2018;12(1):1–14.
18. Kleinman EM, Liu RT. Social support as a protective factor in suicide: findings from two nationally representative samples. J Affect Disord. 2013;150(2):540–5.
19. Sedivy NZ, Podlogar T, Kerr DC, De Leo D. Community social support as a protective factor against suicide: a gender-specific ecological study of 75 regions of 23 European countries. Health Place. 2017;48:40–6.
20. Jorm AF, Kitchener BA. Noting a landmark achievement: mental health first aid training reaches 1% of Australian adults. London: Sage Publications; 2011.
21. Jorm AF, Kitchener BA, Reavley NJ. Mental health first aid training: lessons learned from the global spread of a community education program. World Psychiatry. 2019;18(2):142.
22. Bond KS, Dart KM, Jorm AF, Kelly CM, Kitchener BA, Reavley NJ. Assisting an Australian Aboriginal and Torres Strait islander person with gambling problems: a Delphi study. BMC Psychol. 2017;5(1):1–8.
23. Bovopoulos N, Jorm AF, Bond KS, LaMontagne AD, Reavley NJ, Kelly CM, et al. Providing mental health first aid in the workplace: a Delphi consensus study. BMC Psychiatry. 2016;16(1):1–10.
24. Guajardo MGU, Sleva-Younan S, Santalucia Y, Jorm AF. Important considerations when mental health first aid to Iraqi refugees in Australia: a Delphi study. Int J Ment Heal Syst. 2016;10(1):1–9.
25. Costa TFO, Sampaio FMC, Sequeira CA, Ribeiro IMOC. Parola VSDo: review of mental health first aid programs. West J Nurs Res. 2021;43(12):1146–56.
26. Jorm AF. Using the Delphi expert consensus method in mental health research. Aust N Z J Psychiatry. 2015;49(10):887–97.
27. Lu S, Li W, Oldenburg B, Wang Y, Jorm AF, He Y, et al. Cultural adaptation of the mental health first aid guidelines for assisting a person at risk of suicide to China: a Delphi expert consensus study. BMC Psychiatry. 2020;20(1):1–11.
28. Chandrasri A, Fernando M, Dayabandara M, Reavley NJ. Cultural adaptation of the mental health first aid guidelines for assisting a person at risk of suicide for Sri Lanka: a Delphi expert consensus study. BMC Psychiatry. 2021;21(1):1–9.
29. Colucci E, Kelly CM, Minas H, Jorm AF, Chatterjee S. Mental health first aid guidelines for helping a suicidal person: a Delphi consensus study in India. Int J Ment Heal Syst. 2010;4(1):1–8.
30. Colucci E, Kelly CM, Minas H, Jorm AF, Nadera D. Mental health first aid guidelines for helping a suicidal person: a Delphi consensus study in the Philippines. Int J Ment Heal Syst. 2010;4(1):1–9.
31. Jones J, Hunter D. Consensus methods for medical and health services research. BMJ. 1995;311(7001):376.
32. Hasson F, Keeney S, McKenna H. Research guidelines for the Delphi survey technique. J Adv Nurs. 2000;32(4):1008–15.
33. Ross AM, Kelly CM, Jorm AF. Re-development of mental health first aid guidelines for suicidal ideation and behaviour: a Delphi study. BMC Psychiatry. 2014;14(1):1–11.
34. Oexle N, Waldmann T, Staiger T, Xu Z, Ruesch N. Mental illness stigma and suicidality: the role of public and individual stigma. Epidemiol Psychiatric Sci. 2018;27(2):169–75.
35. Oexle N, Rüschn, Viering S, Wyss C, Seifritz E, Xu Z, et al. Self-stigma and suicidality: a longitudinal study. Eur Arch Psychiatry Clin Neurosci. 2017;267(4):359–61.
36. da Silva AG, Loch AA, Leal VP, da Silva PR, Rosa MM, Bomfim OC, et al. Providing mental health first aid training reaches 1% of Australian adults. London: Sage Publications; 2011.
37. Brazilian culture: communication https://culturalatlas.sbs.com.au/brazilian-culture brazilian-culture-communication. Accessed 15 Dec 2022.
38. Pereira AS, Wilhelm AR, Koller SH, Almeida RM. RMDR: risk and protective factors for suicide attempt in emerging adulthood. Ciência Saude Coletiva. 2018;23(3):262–8.
39. Dutra K, Preis LC, Caetano J, Santos JLdG, Lessa G. Experiencing suicide in the family: from mourning to the quest for overcoming. Revista Brasileira De Enfermagem. 2018;71:2146–53.
40. Kreuz G, Antoniassi RPN. Support group for suicide survivors. Psicologia Em Estudo. 2020,25 Article 42427.