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Traditional Healers and Mental Health in Nepal: A Scoping Review

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Journal

Culture, Medicine, and Psychiatry, 45(1)

ISSN

0165-005X

Authors

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Publication Date

2021-03-01

DOI

10.1007/s11013-020-09676-4

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2 ORIGINAL PAPER

3 Traditional Healers and Mental Health in Nepal: 4 A Scoping Review

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11 Abstract Despite extensive ethnographic and qualitative research on traditional healers in Nepal, the role of traditional healers in relation to mental health has not 12 been synthesized. We focused on the following clinically based research question, 13 "What are the processes by which Nepali traditional healers address mental well-14 15 being?" We adopted a scoping review methodology to maximize the available literature base and conducted a modified thematic analysis rooted in grounded 16 theory, ethnography, and phenomenology. We searched five databases using terms 17 related to traditional healers and mental health. We contacted key authors and 18 19 reviewed references for additional literature. Our scoping review yielded 86 eligible 20 studies, 65 of which relied solely on classical qualitative study designs. The

A1 **Electronic supplementary material** The online version of this article (https://doi.org/10.1007/s11013-A2 020-09676-4) contains supplementary material, which is available to authorized users.

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	Article No. : 9676		TYPESET
\$	MS Code : MEDI-D-19-00146R1	☑ CP	🗹 DISK

21 reviewed literature suggests that traditional healers use a wide range of interventions

22 that utilize magico-religious explanatory models to invoke symbolic transference,

23 manipulation of local illness narratives, roles, and relationships, cognitive restruc-

24 turing, meaning-making, and catharsis. Traditional healers' perceived impact

appears greatest for mild to moderate forms of psychological distress. However, the

26 methodological and sample heterogeneity preclude uniform conclusions about tra-27 ditional healing. Further research should employ methods which are both

- empirically sound and culturally adapted to explore the role of traditional healers in
- 29 mental health.
- 30

31 Keywords Religion · Psychotherapy · Spirituality · Traditional healer ·

- 32 Mental health
- 33

34 Introduction

35 Given increasing global recognition of the relationship between traditional healers 36 and mental illness (Incayawar et al. 2009), Nortje et al. (2016) generated a 37 systematic review on the relevant quantitative data with van der Watt et al. (2018) following up on the remaining qualitative literature. Their review suggested that 38 39 traditional healers in low- and middle-income countries were perceived to effect the 40 most change among those who suffered from less severe mental illness, expected positive change, and believed in the inherent meaning of their treatment. Because 41 42 their review demonstrated a clear diversity in traditional healers and the cultures they practiced in, they concluded future studies should focus on the cultural 43 44 specificity of traditional healing practices within individual nations using detailed, contextual data to facilitate more generalizable claims (Nortje et al. 2016; van der 45 46 Watt et al. 2018).

47 There is a rich body of ethnographic and qualitative literature from Nepal on traditional healers, however, a cursory review may instead reveal an over-48 49 romanticized and arguably dismissive generalization of mysticism, neologisms, 50 scientific jargon, and other paranormal, miraculous, or extraordinary claims (Krippner and Combs 2002; Castillo 2004; Sidky 2010). The potential for 51 misunderstanding necessitates a further in-depth exploration of the total available 52 literature, the term "traditional healers" and how traditional healers operate vis-à-53 54 vis mental health in Nepal. This is made especially true given their growing clinical 55 significance.

Previous work has promoted traditional healers to the role of primary care 56 57 providers or referral agents (Poudyal et al. 2003, 2005). However, if medical 58 providers delegate traditional healers to function simply as primary care providers 59 or referral agents to other primary care providers, or even to deliver simplified 60 manualized psychotherapies, then they lose access to the traditional healer's unique ability to treat the patient's teleological needs. Consequently, medical providers 61 62 might benefit from bearing in mind Nepal's diverse, specific, and idiosyncratic 63 cosmologies of the mind, how they shape the work of local traditional healers, and how they could potentially shape the work of local medical providers. 64

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65 Recent work by Chase et al. (2018) took a "scoping review" approach to 66 synthesizing 38 publications on culture and the mental health in Nepal. The purpose 67 of a scoping review is to provide an overview of the existing evidence, regardless of 68 quality (Arksey and O'Malley 2005; Levac, Colquhoun, and O'Brien 2010). The 69 reviewed literature discussed how culture and indigenous knowledge, beliefs, and 70 values shape and determine the symptom experience, expression, and help-seeking 71 behaviors of those with mental illness. Chase et al. (2018) concluded by affirming 72 the growing interest in culturally informed mental health research and encouraging 73 its application within service design and capacity building.

74 Future researchers may take several approaches to this. For instance, given the 75 traditional healer's potential and unique capacity to engage in this healing role, medical providers could allow traditional healers to practice their own theories and 76 77 interventions, without feeling the need to fulfill a medical role sub-serving 78 biomedicine and vice versa (Ventevogel 1996). Here, future medical providers 79 could adopt a holistic bio-psycho-social and spiritual collaborative care model in which multi-disciplinary teams would meet the explanatory needs of opposing 80 81 illness causality models. Traditional healers in these teams could cover issues which 82 have no simple pharmacological or psychopathological answer, and yet still play a role in both symptoms and solutions. This idealistic approach draws from how 83 84 biomedicine and traditional healing systems can principally learn from each other 85 and both contain elements which the other lacks. Future medical providers, 86 researchers and public health officials in Nepal could use this approach as a road 87 map for bringing mental health resources to the underserved in a way that is neither 88 invasive nor imperialistic, but rather empowering on a social, individual, and even 89 spiritual level (Craig et al. 2010).

90 It is an ideal time to synthesize the relevant literature in Nepal. However, the traditional healing landscape is described through a heterogeneous and difficult to 91 92 summarize literature base. To date, empirical research on the relationship between 93 traditional healers and mental health has been quite scarce because of the unique 94 challenges to the trial design, implementation, and evaluation of traditional healers 95 (Nortje et al. 2016; van der Watt et al. 2018). To study a field where fidelity, 96 adherence, and manualized care do not easily translate into ways of understanding 97 traditional healing, many past researchers have instead turned to ethnographic, 98 qualitative, and other social science methods with poor quality and low evidence 99 levels per biomedical criteria, e.g., GRADE recommendations (Schünemann et al. 100 2013).

Thus, to synthesize the relevant literature base in Nepal including the qualitative work which might otherwise elude systematic review, we adopt the scoping review methodology. Future researchers who wish to study traditional healers and mental health in Nepal, along with its socio-cultural diversity and complexity, should consider this scoping review in tandem with the work of Chase et al. (2018) who just recently reviewed culture and mental health in Nepal.

For our scoping review, we will first discuss the general scope of the included literature, introduce relevant terminology, and identify key atheoretical healer interventions before progressing to theoretical mechanisms of healing. Then we will summarize our results within a pathways to care model.

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111 Methods

113 Nepal is a complex hotspot for cultural and biological diversity, altogether 114 composed of 125 castes/ethnic groups and 123 languages, a fact which can be 115 explained through Nepal's intertwined nature between the borders of the Indian 116 subcontinent and Tibet. And according to the 2011 National Population and 117 Housing Census, 81% of the population follows Hinduism, 9% Buddhism, 4% 118 Islam, 3% Kirat Mundhum (indigenous ethnic religion), 1% Christianity, and 1% other or no religion ("National Population and Housing Census 2011 (National 119 120 Report)." Consequently, Nepal's ethnic, cultural, linguistic, and religious hetero-121 geneity has made it hard to generalize all theories regarding self-hood, magico-122 religious thinking, and perceptions of traditional healers across the entire population 123 (Regmi 1987).

However, accurate, reliable data on religion have historically dodged Nepal's census reports for several reasons. Strict classification systems fail to capture the syncretic nature with which mountain region Hinduism in Nepal has absorbed Buddhist tenets and vice versa. Furthermore, census enumerators have been known to incorrectly lump whole ethnicities and castes together while relying on rigid parameters to record religious preference. This has left many to claim "Hinduism" as their religion despite evidence to the contrary (Dahal 2003; Ghimire 2019).

More recently, rapid shifts in religious preference have turned measurements into a moving target. For instance, census data have seen a rising popularity in Buddhism and Kirati religions among the Magar, Tharu, Chepang, and Dalit ethnic/caste groups. In another example, Christianity has surged 225% between 1961 and 2001, especially among the Tamang and Chepang ethnic groups (Dahal 2003; Ghimire 2019).

137 In light of Nepal's diversity, much of the literature on traditional healers and 138 mental well-being has focused on specific Nepali subpopulations. Consequently, we 139 categorized findings in this review by accepted social, political, and geographic 140 divisions within Nepal. Nepal has three main types of ecosystems that inform the 141 types of populations, livelihoods, and political contexts. The northern part of the 142 country is the Himalaya, characterized by high-altitude regions with mostly Tibeto-143 Burman language speaking populations, and with a greater concentration of 144 Buddhism. The middle region of the country is known as the Middle Hills (Parbat). 145 This region is lower altitude hills and mountains with populations speaking Nepali 146 and practicing Hinduism, as well as middle-hill ethnic minority groups who may practice Hinduism or Buddhism. The southern part of the country is the plains 147 148 region (Tarai) characterized by high agricultural production and populations of 149 north Indian dissent typically speaking Indo-European languages related to Hindi. 150 Here, Hinduism is the dominant religion, with small Muslim populations.

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151 Search Strategy

152 Because of the broad landscape of rich, ethnographic data regarding traditional 153 healing in Nepal, we focused on the clinically based research question, "What are 154 the processes by which Nepali traditional healers address mental well-being?" Thus, 155 our review, while open to Nepal's cultural heterogeneity, does not seek to 156 summarize every related aspect of it, neither does it summarize each and every 157 traditional healer intervention outside of those papers which match our research 158 question.

We used the Preferred Reporting Items for Systematic Review and Meta-analysis
Extension for Scoping Reviews (PRISMA-ScR) (Fig. 1; Appendix A in Electronic
Supplementary Material) (Tricco et al. 2018). We additionally registered our
scoping review through the Open Science Framework (OSF) (osf.io/4ahuw).

We utilized broad search strategies to capture relevant idiomatic and ethnographic language that might escape a typical systematic review taxonomy. For example, we searched for "mental health" using informal language based on

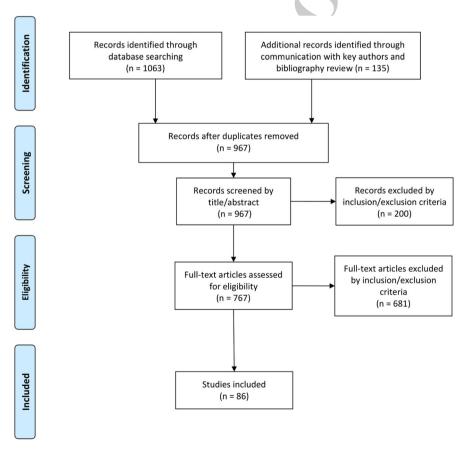


Fig. 1 PRISMA-ScR flow chart

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166 "mental well-being." We searched databases from Anthrosource, PsycINFO, Web

167 of Science, Scopus, and Pubmed. The full search strings used varied based on each

168 database (Appendix B in Electronic Supplementary Material). We contacted key

- 169 authors and reviewed references of included articles and publications from their
- 170 work for additional literature.

171 Screening and Eligibility Criteria

172 The authors screened the initial search results using pre-defined inclusion/exclusion

173 criteria in two phases: (1) title/abstract review and (2) full-text review (Table 1). To

174 avoid prior loose, unsystematic definitions, we used the same "traditional healer"

175 definition as established by Nortje et al. (2016): "healers who explicitly appeal to

176 spiritual, magical or religious explanations for disease and distress."

177 Data Extraction and Synthesis

We conducted our analyses according to guidelines for a modified thematic analysis
rooted in grounded theory, ethnography, and phenomenology (Braun and Clarke
2006; Taylor and Bogdan 1998). This approach relied on identifying and describing
explanatory patterns within texts and allowed for a more flexible account of the
qualitative, heterogeneous body of literature.

183 Two of us (TVP and BNK) completed two passes of the literature to establish the 184 final codes, themes, and organizational frameworks. Our first reading of the literature identified initial codes. We adjusted these codes through constant 185 186 comparison across literature. To enhance trustworthiness of the qualitative analysis, we engaged in active discourse with respect to coding, organization of coding 187 categories, and identification of emerging themes. We discussed the data and 188 189 provided critical feedback on their interpretations. This provided a theoretical 190 sounding board which allowed us to reflect on and then explore alternative 191 interpretations before making changes.

Inclusion criteria	Relates to traditional healers as defined by Nortje et al. (2016)
	Relates to psychological outcomes from any involved parties, regardless of concurrent physical outcomes
l l l l l l l l l l l l l l l l l l l	Discusses the processes by which Nepali traditional healers address mental well- being
	Relates to Nepalis regardless of their physical location and includes non-Nepalis residing in Nepal
	Includes scientific data, regardless of its "quality" evaluation or study design
	Written in English
Exclusion criteria	Traditional healing not provided by a traditional healer as per the definition by Nortje et al. (2016)
	No reference to inclusion criteria outside of one passing sentence about the intersection between Nepali traditional healers and a psychological outcome

Table 1	Inclusion/exclusion	criteria
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By the end of our first pass, the codebook reached data saturation, i.e., no new themes emerged. We agreed upon the final codebook by reading the coded data and checking the codes for consistency (Appendix C in Electronic Supplementary Material).

196 Results

197 Altogether, our scoping review yielded 86 publications, including 65 qualitative 198 studies, two quantitative studies, eight literature reviews, five perspective or opinion 199 pieces, and six mixed methods studies (Table 2). Many were limited in scope; did 200 not use regimented study designs, validated scales, or ratings for outcome 201 assessments; relied primarily on ethnographic data without any biomedically 202 defined framework; used terminology with ambiguous definitions inconsistent with 203 the broader literature and health policies.

The reviewed literature spanned across most major regions of Nepal including 204 205 the Kathmandu Valley (n = 15), Western Himalaya (n = 5), Central Himalaya 206 (n = 18), Eastern Himalaya (16), Western Middle Hills (n = 6), Central Middle 207 Hills (n = 4), Eastern Middle Hills (n = 4), Western Tarai (n = 4), Central Tarai 208 (n = 8), Eastern Tarai (n = 1) as well as England (n = 3), Hong Kong (n = 1), and 209 India (n = 3). Five works sampled from multiple regions. The reviewed literature also covered a broad range of ethnicities and castes including the lower castes 210 211 (n = 6), higher castes (n = 10), Newar (n = 7), middle hills ethnic groups (n = 26), 212 Tarai indigenous groups (n = 4), Kirati (n = 12), Chantel (n = 1), Sherpa (n = 8), 213 Bhutanese (n = 3), Tibetan (n = 1), and Sikh (n = 1). 10 works represented multiple 214 ethnicities or castes.

215 Despite such cultural heterogeneity in terms and constructs, much of mental health research and practice has described Nepal's fluid areas of self and life using a 216 217 framework by Kohrt and Harper (2008). In this framework, they conceived of the Nepali self in terms of the man (heart-mind), dimaag (brain-mind), iu/saarir 218 219 (physical body), saato/atma (spirit/soul), ijjat (social status/honor), and samaaj 220 (social world). Nepali phenomenological concepts of the self, such as the man (heart-mind) notably bypass local notions of stigma classically associated with 221 mental illness (Kohrt and Harper 2008). The distinction between man and dimaag 222 (brain-mind) is especially important given that issues and solutions related to the 223 man offer a satisfying explanation for sickness and misfortune, whereas dimaag 224 225 issues and solutions face the same stigma as mental illness (Kohrt and Harper 2008). This nuanced stigma has presented tremendous barriers for healthcare delivery, and 226 227 traditional healing is built upon this cultural psychology (ethnopsychology).

Overall, the literature reported on a wide variety of traditional healers in Nepal while simultaneously revealing that Nepali had no agreed upon general term for "traditional healer." The majority of the reviewed literature used local terms (emic) when referring to distinct ethnic and cultural types of traditional healers. These included but were not limited to *dhami* (mediums or villagers like any other who indirectly heal through divine possession states; conventionally used in Western Nepal), *jhankri* (non-mediums who directly heal through their own powers with or

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Table 2 Summar	Summary of reviewed literature					
Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Case study	Central Himalaya	Alter (2014)	1 IDI	NS	Healer with spirit possession and alcohol dependence	Biosemiotics as a way to understand healing and recovery from addiction
Case study	England	Jolly (1999)	1 IDI	NS	Gurkha Soldier	Soldier with odd behavior and physical symptoms
Case study	England (British Military Hospital)	Melia and Mumford (1987)	4 IDIs	NS	Patients admitted who were first considered to have physical disease	Witchcraft, spirit possession, psychiatric disease, and <i>dhami-jhankri</i> referrals
Case study	Kathmandu Valley (Bhaktapur)	Katry (2011)	2 DIs	NS	THs	Agreement between healer and patient to do away with destructive supernatural forces
Case study	Kathmandu Valley (Boudhanath, Kathmandu)	Mastromattei (1995)	I []]	Middle Hills Ethnic Group (Tamang)	1 female bombo	Ecstatic ritual as familial closure for suicide and accidental death
Case study	Mixed (Kathmandu Valley (Kathmandu), Eastern Tarai (Saptari District), Central Tarai (Rupandehi District))	Acharya (2019)	3 IDIs	NS	Dhami-jhankri and mata	Positive psychological impact on psychosomatic patients
Cross-sectional	Central Tarai (10 VDCs, Chitwan District)	Luitel et al. (2017) 1983 surveys		NS	Adults	Treatment gaps in mental illness

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Cross-sectional	Eastern Himalaya (Bhutanese van Ommeren refugee camps) et al. (2004)	van Ommeren et al. (2004)	1052 surveys	Bhutanese	Tortured and non- tortured adults	THs and psychopathologies treated
Cross-sectional	Kathmandu Valley (Norvic International Hospital)	Hashimoto et al. (2015)	50 IDIs	NS	Patients with mental illness	Role of THs in referral to mental health care
Cross-sectional	Kathmandu Valley (urban Kathmandu and nearby villages)	Furt-(2004)	276 surveys	NS	Teachers	Impact of westernization on deviant behavior
Ethnography	Central Himalaya (Helambu region)	Desjarlais (1991)	NS	Sherpa (Yolmo)	NS	Dreams as a vehicle for reporting mental distress
Ethnography	Central Himalaya (Helambu region)	Desjarlais (1992)	SN	Sherpa (Yolmo)	NS	THs and mental health
Ethnography	Central Himalaya (Dhading District)	Höfer (1981)	SN	Middle hills ethnic group (Tamang)	S	Buddhist ritual techniques which interrelate the patient's physical and metaphysical worlds
Ethnography	Central Himalaya (Dhading District)	Höfer (1981)	NS	Middle hills ethnic group (Tamang)	NS	Buddhist ritual techniques which interrelate the patient's physical and metaphysical worlds

Table 2 continued

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Ethnography	Central Himalaya (Dhading District)	Höfer (1992)	NS	Middle hills ethnic group (Tamang)	SN	Informative diagnosis and ecstatic ritual as meaningful and self-distancing therapy catharsis
Ethnography	Central Himalaya (Dhading District)	Höfer (1994)	NS	Middle hills ethnic group (Tamang)	SZ	Buddhist ritual techniques which interrelate the patient's physical and metaphysical worlds
Ethnography	Central Himalaya (Annapurna massif)	Messerschmidt (1976)	SN	Middle hills ethnic group (Gurung)	NS	Religious traditions as a way to rationalize the world
Ethnography	Central Himalaya	Michl (1976)	NS	Mixed (Chantel, lower caste (Kami))	SN	TH's ability to strengthen community's psychological adaptation to harsh environments
Ethnography	Central Himalaya (Annapurna and Dhaulagiri massifs)	Regmi (1987)	45 IDIs	Middle hills ethnic group (Gurung)	Local <i>lama</i> and community members	Myth and ritual for personality characterization
Ethnography	Central Himalaya (Jiri Valley, Dolakha District)	Sidky et al. (2000) NS	NS	Mixed (Sherpa, middle hills ethnic groups (Jirel, Tamang)	2 Sherpa <i>dhami-</i> <i>jhankri</i> , 1 Tamang <i>dhami-jhankri</i> , and several Jiral <i>phombo</i>	Role of <i>phombo</i> (Jirel THs)

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Ethnography	Central Middle Hills (Khiji, Likhu Khola tributary east bank)	Egli (2014)	NS	Kirati (Sunuwar)	NS	Ritual ancestral atmosphere as a domination-free discussion and mediation
Ethnography	Central Middle Hills (Trisuli Bazar, Nuwakot District)	Höfer and Shrestha (1973)	NS	Higher caste (Brahman)	NS	Elder's presence and active patient participation during séance to create Brahmanical kinship
Ethnography	Central Tarai (Dhanusa District, Tisiyahi Village. Tisiyahi Clinic)	Burghart (1984)	NS NS	Tarai indigenous group (Maithil)	Brahmanically and medically influenced exorcist and his patients	Legitimizing folk explanatory paradigms through Brahmanical and medical influence
Ethnography	Central Tarai (Makwanpur District)	Riboli (2000)	NS	Middle hills ethnic group (Chepang)	NS	Healer as therapist and psychopomp who conducts puja to renew motivation and vigor
Ethnography	Central Tarai (Makwanpur District)	Riboli (2012)	NS	Middle hills ethnic group (Chepang)	ZS	Consciousness and associated healing systems
Ethnography	Eastern Himalaya	Desjarlais (2003)	NS	Sherpa (Yolmo)	NS	<i>Bombo</i> rituals and psychological change

Table 2 continued

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Ethnography	Eastern Himalaya (Bala Village)	Gaenszle (2016)	1 observation	Kirati (Mewahang Rai)	TH and his patients	TH's speech acts to convey complex agency within a psychological framework
Ethnography	Eastern Himalaya (Eastern Arun Valley)	Hardman (1996)	NS	Kirati (Lohorung)	NS	The priest's use of saya as a complex symbolic code
Ethnography	Eastern Himalaya (Eastern Arun Valley)	Hardman (2004)	NS	Kirati (Lohorung)	NS	The relationship between emotions and ancestors
Ethnography	Eastern Himalaya	S. Jones (1976)	SN	Kirati (Limbu)	NS	Social determinants of spirit possession
Ethnography	Eastern Himalaya (Dolakha District)	Miller (1979)	NS	Middle hills ethnic group (Thami)	NS	Creating the expectation of improvement and naming the underlying spiritual illness to relieve tension and psychosomatic illness.
Ethnography	Eastern Himalaya (remote Hongu river watershed, south of Mount Everest)	Nicoletti (2006)	NS	Kirati (Kulunge Rai)	NS	Creating order and meaning through ritual
Ethnography	Eastern Himalaya (Shorung region, Solukhumbu District)	Paul (1976)	NS	Sherpa	NS	TH's control of madness

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample	Relevant topics
					characteristics	
Ethnography	Eastern Himalaya (Bhojpur Bazaar)	Pigg (1995)	NS	NS	NS	The overlap between healer therapeutic aspect and the social dynamics they produce,
Ethnography	Eastern Himalaya (Mewakhola area, Limbuan)	Sagant (1976)	NS	Kirati (Limbu)	NS	TH's initiation and sacrificial rituals
Ethnography	Eastern Himalaya (Solukhumbu District)	Soubrouillard (1995)	5 IDIs	Mixed (Tibetan, Nepali)	2 females and 3 male THs	Treatment of mental illness by THs
Ethnography	Eastern Himalaya (Solukhumbu District)	Walter (2004)	ZS	Higher caste (Chetri, Brahman), Lower caste (Kami, Damai) Kirati (Rai), Middle hills ethnic group ethnic group	S	Rites which bind various communities into a broad network of shared commonalities and experience
Ethnography	Eastern Middle Hills (outpatient neurology/ medicine, tertiary care center)	Bajaj et al. (2013) 100 IDIs	100 IDIs	NS	Patients with neurological disorders	Psychosocial relationships to neurological disease
Ethnography	Eastern Middle Hills (Bhutanese refugee camp)	Chase and Sapkota (2017)	NS	Bhutanese	Refugees	Spiritual care of Bhutanese refugee distress
Ethnography	Eastern Middle Hills (village near the Tamba and Mauling Rivers)	Fournier (1976)	NS	Kirati (Sunuwar)	NS	Spirit possession and the sacrificial performances by THs

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Ethnography	Eastern Middle Hills (Terhathum District)	R. Jones (1976)	NS	Kirati (Limbu)	SN	Roles of psychiatrists, THs, and priests
Ethnography	India (Darjeeling Hills of West Bengal and Sikkim) psychophysiological healing.	Hyam (2019)	NS	Kirati (Limbu, Rai), Middle hills ethnic group (Gurung, Tamang), Newar	Villagers, THs, and Bauls (mystic minstrels)	Music which engenders body- self-integration, sociopolitical subversion, and
Ethnography	India (Eastern Kumaon, former kingdom of Askot)	Lecomte-Tilouine (2009a, b)	SI	NS	NS	Rituals which seek help, confront grievances, and bring communal disputes into public space of gods' arbitration
Ethnography	India (Kalimpong Sub- district, Darjeeling, West Bengal)	Macdonald (1976) NS	NS	SN	Nepali immigrant population	The sociological and psychological roles of <i>dhami-jhankri</i>
Ethnography	Kathmandu Valley (Kathmandu, Bhaktapur, and Patan, and the town of Banepa)	Greene (2002)	110 IDIs	Newar (Manandhar)	Some goldsmiths of the Shakya and Vajracharya Buddhist castes, farmers, monks, priests.	Buddhist buffalo horns which reconceptualize the body and actualize beliefs about death and rebirth

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Ethnography	Kathmandu Valley (northwest of Kathmandu, north of the Salankhu River, between the Trisuli and Ankhu rivers)	Holmberg (1989)	NS	Middle hills ethnic group (Tamang)	NS	TH's madness and healing rituals
Ethnography	Kathmandu Valley	Parish (1991)	NS	Newar	NS	Sacred and moral concepts of the Newar mind, self, and emotion
Ethnography	Kathmandu Valley (psychiatric outpatient clinic and healer village)	Skultans (1988)	SZ	NS	Hospital patients consulting for mental illness and THs	A comparison of patients who are seen by THs versus those seen by medical hospitals
Ethnography	Kathmandu Valley (The Centre for Victims of Torture (CVICT))	Tol et al. (2005)	3 case studies	SN	Patients seen at CVICT	Culturally adapted psychosocial counseling
Ethnography	Mixed (Kathmandu Valley (mountains to the east and west), Central Tarai (recently settled southern areas))	Peters (2004)	N	Middle hills ethnic group (Tamang)	TH guru	Phenomenology, mystical experience, and healing rituals of Tamang THs
Ethnography	Mixed (Kathmandu Valley (mountains to the east and west), Central Tarai (recently settled southern areas))	Peters (2007)	NS	Middle hills ethnic group (Tamang)	TH guru	Phenomenology, mystical experiences, and healing rituals of Tamang THs

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Ethnography	Mixed (Central and Eastern Himalaya (primarily the Dolakha and Sindhupalchowk Districts))	Shneiderman (2015)	NS	Middle Hills Ethnic Group (Thangmi)	NS	Origin myths, rituals, and mental well- being
Ethnography	Western Himalaya (Mustang District, Muktinath Valley)	Craig et al. (2010) 44 IDIs	44 IDIs	Tibetan	amchi (practitioners of Tibetan medicine), mopa (diviners), ngakpa (tantric specialists)	Conceptions of known illness as a misalignment of local spiritual forces
Ethnography	Western Himalaya (southwestern foothills, Dhaulagiri massif)	Hitchcock (1973)	NS	Middle hills ethnic group (Bhujel)	NS	Séances which answer bothersome questions, mirror ambiguity, and allow expression of deeply seated sexual anxieties
Ethnography	Western Himalaya (southwestern foothills, Dhaulagiri massif)	Hitchcock (1976)	NSN	Middle hills ethnic group (Bhujel)	NS	TH séances to overcome grief
Ethnography	Western Himalaya (Gyasumdo region, northern village of Tshap)	Mumford (1989)	NS	Middle hills ethnic group (Guring)	NS	Tibetan rituals which ensure happiness and general well- being
Ethnography	Western Himalaya	Winkler (1976)	6 IDIs	4 higher caste (Chhetri, Brahman), 2 lower caste	6 dhami-jhankri	Social contexts of the dhami-jhankri

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Ethnography	Western Middle Hills (Lamjung District)	van Leeuwen (2008)	26 IDIs, 5 FGDs	Mixed (Newar, middle hills ethnic group (Gurung), higher caste (Chetri), lower caste (Dhalit))	20 THs (ages 45–80 years, 9 trained in psychosocial counseling), 3 local psychosocial workers, 1 head nurse, 2 doctors	The role of THs in psychosocial counseling
Ethnography	Western Middle Hills (Jajarkot and Rukum Districts)	Maskarinec (1995)	NS	NS	NS	Relations among language, action, and social realities
Ethnography	Western Tarai	Reinhard (1976)	NS	NS	Purbia Raji speaking hunter-gatherer communities	Effects of TH personality
Ethnography	Western Tarai (drainage basins of the Karnali and Mahakali rivers)	Gaborieau (1976)	NS	NS	NS	Personalities of THs and gods
Ethnography	Western Tarai (Palpa District)	Harper (2014)	4 IDIs	NS OF	1 lama, otherwise NS	Idioms of distress and the phenomena of multiple physical complaints
Ethnography	Western Tarai (remote region)	Kohrt and Schreiber (1999)	52 IDIs	Tarai Indigenous Group (Tharu)	Villagers	Neuropsychiatric complaints of jhum-jhum
Grounded theory	Central Tarai (Chitwan District)	Brenman et al. (2014)	83 (33 KIIs and 9 FGDs)	NS	Community members and health facility/ organization workers	The relationship between traditional and biomedical sources

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Grounded theory	Central Tarai (Dhanusha District)	Clarke et al. (2014)	22 IDIs and 12 FGDs NS	NS	IDIs with distressed mothers and a <i>dhami-jhankri</i> ; FGDs with community members	Treatment of maternal tension by <i>dhami-</i> <i>jhankri</i>
Grounded theory	Grounded theory Kathmandu Valley	Kohrt and Hruschka (2010)	33 free-listing/ emotion mapping activity; 32 IDIs	Mixed (Bhutanese, Newar, middle hills ethnic groups (Gurung, Magar), Kirati (Rai))	One male NGO psychosocial counselor	Expression of psychological trauma
Grounded theory	Western Middle Hills (Pyuthan District)	Kisa et al. (2016)	Kisa et al. (2016) 26 KHs and 9 FGDs	NS	NS	Reducing the mental health accessibility gap
Literature review	Mixed (Central Himalaya (mostly Dolokha District), Central Middle Hills (Kavrepalanchok district), and Central Tarai (Chitwan District))	Sidky (2008)	NS	Mixed (middle hills ethnic groups (Jiral, Gurung, Tamang), higher caste (Chhetri), Kirati (Rai), Sherpa)	NS	Overview of THs
Literature review	NS	Kuruvilla and Jacob (2015)	NS	Ns	SN	Referral networks between THs and the primary health care system

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Literature review	SN	Busick (1978)	SZ	SN	SN	Promoting social integration and community solidarity through reinforcement of religious reality
Literature review	NS	Evers et al. (2016) NS	NS	NS	NS	THs versus the biomedical approach to childhood trauma
Literature Review NS	NS	Gewali (2008)	NS	NS	NS	Traditional medicine and medicinal plant resources
Literature review	NS	Kohrt and Harper (2008)	SIN	SN	NS	Mind-body relations, mental health, and provider preferences
Literature review	NS	Sidky (2010)	NS	NS	NS	THs, human religiosity, and neurotheology
Literature review	NS	Lecomte-Tilouine (2009a, b)	NS	SI	NS	Rituals which may answer distress related to the social order
Mixed methods	Central Himalaya (Thumpakhar and Thulopakhar VDCs, Sindhupalchowk District)	Lohani (2010)	81 surveys; # NS for IDIs, KIIs, and FGD	Middle hills ethnic group (Tamang)	Surveys targeted the head of the household	Tamang-animal relationships

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Mixed methods	Central Himalaya (Sangachowk VDC, Sindhupalchowk District)	Sapkota et al. (2014)	38 case-control participants, 7 IDIs, 3 FGDs	Mixed (lower caste (Dalit), higher caste (Giri, Brahman))	Possessed and non- possessed women, school teachers, a NGO worker, family members, and a Hindu priest	Cultural contexts and psychosocial correlates of spirit possession
Mixed methods	Central Middle Hills	Kohrt et al. (2020)	84 IDIs, 4 observational rating scales	Mixed (higher caste (Brahman , Chetri), Newar, lower caste (Badhai, Dalit), indigenous Terai group (Yadab), middle hills ethnic group (Tamang), Sherpa (Lama), Sikh)	Mixed religions (Hindu, Buddhist, Muslim, Satsai), IDIs with patients, THs, observational rating scales on <i>dhami-jhankri</i> , <i>jyotisi</i> (astrologers)	Common and specific factors shared between THs and conventional psychotherapy
Mixed methods	Kathmandu Valley	Kohrt (2014)	142 surveys, 24 case studies, 152 KIIs, 25 FGDs	SZ	KIIs/FGDs with children and community members; case studies with child soldiers	Rituals used during the reintegration of child soldiers following the Maoist Insurgency
Mixed methods	Western Middle Hills (Jajarkot District, Kadi)	Subba (2007)	# NS for surveys, case studies, IDIs, and FGDs	Higher caste (Thakuri, Household heads, Chhetri) THs, patients	Household heads, THs, patients	Kadi recitals, cultural logic, and psychosocial distress

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Design	Study location/setting	Study	Sample size	Ethnicity/caste	Other sample characteristics	Relevant topics
Mixed methods	Mixed (Western Middle Hills (Syangja District, Mahendranagar municipality), Central Himalaya (Charikot municipality), Eastern Himalaya (Ilam municipality))	Shrestha and Lediard (1980)	99 interviews/surveys	Mixed (higher caste (Brahman, Chhetri, Thakuri), Newar , lower caste (Kami, Sarki), Middle hills ethnic groups (Gurung, Magar, Tamai Indigenous Grout (Tharu))	NS	THs as therapeutic leaders of syncretic religious background who connect with spiritual struggle for better life
Opinion	Eastern Himalaya (Arun Valley)	Hyman (2006)	SN	Mixed (Higher caste (Chhetri), Kirati (Rai), Middle Hills Ethnic Group (Gurung), Tibetan)	NS	TH impact on village well-being
Opinion	Kathmandu Valley	Gellner (1994)	NS	SN	NS	Mediums, spirits, psychosocial issues, and blood sacrifices
Opinion	NS	Dickinson (1988)	NS	SN	SN	Special role of THs in treating psychiatric disease
Opinion	NS	Dickinson (1988)	NS	NSN	NS	Special role of THs in treating psychiatric disease
Opinion	NS	Hitchcock (1976)	NS	NS	NS	THs in comparison to psychiatrists

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235 without divine possession states; conventionally used in Eastern Nepal) (Hitchcock 236 1976), dhami-jhankri (an unconventional though common amalgam of dhami and 237 *ihankri*). *lama* (a Buddhist term for monk ritual practitioner which also refers to an 238 informal traditional healer), mata (female healer, often referred to a woman who 239 had become possessed by a spirit that in turn gave her healing powers), ban jhankri 240 (jungle healer), jyotishi (astrologers who can heal patients), mopa (diviners), ngags 241 pa (tantric priests), baul (mystic minstrels) (Hyam 2019), amchi (Tibetan doctors) 242 (Craig et al. 2010), *bijuwa* (Rai traditional healer) (Hvam 2019), *bombo* (Tamang or 243 Yolmo healer), lambu (Tamang healer) (Höfer 1997), phombo (Jirel traditional 244 healer) (Sidky et al. 2000), pande (Chepang healer) (Riboli 2012), puimbo (Sunuwar 245 healer), ngiarni (Sunuwar healer) (Fournier 1976), poju (Gurung healer), hlewri (Gurung healer) (Messerschmidt 1976), gurau (Tharu traditional healer) (Shrestha 246 247 and Lediard 1980), and *yeba* (Limbu traditional healer) (S. Jones 1976). Others referred to less conventional healers such as a *punjari* (priests who specialize in puja 248 249 rituals either at home or the temple, typically Hindu) (Hitchcock and Jones 1976; 250 Sidky 2008). Curiously, *jajmani* (similar to *pujari*, however, *jajmani* were villagers 251 like any other who happened to be performing in-home rituals including but not 252 limited to puja) did not appear in the included literature.

253 Certain healer types, such as *ayurvedic* healers, *bhaidya* (healers in the *ayurveda* 254 tradition, who typically prepared herbal medications), naturopathic healers (also 255 similar to ayurvedic healers, but with an emphasis on vitalism), lhapa/lhamo (oracles), and *aaya* (ritual specialists who are often concerned with forms of mental 256 257 distress and misfortune, as well as with other issues) also did not appear in the 258 included literature. Although patients likely present to these healer types for 259 ailments reminiscent of Western psychopathology, our review of the available 260 literature base did not reveal explicit documentation of a ritualistic interaction with a psychological outcome in keeping with our inclusion/exclusion criteria. 261

The included literature used non-local (etic) terms such as "traditional healer," though less commonly than their emic counterparts. Other etic terms included "faith healer," "traditional faith healer," "traditional medical practitioner," "shaman," and "medium." The broad etic language had at times proven confusing as, for example, faith healers could also distinguish themselves from traditional healers through their emphasis on prayer or other faith-based practices.

In spite of the aforementioned clear boundaries across individual healer types and for the purposes of narrative simplicity within the broader context of patient-healer interventions, we will refer to all traditional healer types, whether faith healers, shamans, *dhami-jhankri*, etc., as "traditional healers" unless contextually necessary. We also refer to all those receiving the traditional healer's intervention as "patients" whether they be clients, villagers, community members, etc. while recognizing the biomedical connotations inherent within this term.

275 Diagnosis

Our review revealed many kinds of traditional healer diagnostic approaches often in
 the setting of but not specifically for mental health complaints. Diagnostic
 approaches included pulse checks, social interpretation, and magico-religious

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279 divination, recitals, and offerings. Interestingly, many traditional healers used 280 techniques interchangeably, and patients demonstrated little interest in the 281 traditional healer's actual diagnosis (Skultans 1988). Some diagnostic approaches 282 blurred the line between diagnosis and treatment, as was the case with more 283 elaborate performances and the involvement of social support (Maskarinec 1995; 284 Sidky 2010; Sagant 1976; Brenman et al. 2014; Skultans 1988).

285 Traditional healers could divine the cause of illness by taking the patient's pulse, 286 although with a less consistent approach when compared to the biomedical model 287 (van Leeuwen 2008). If no pulse was in the right wrist, then no major deities could be said to be the cause. If there was no pulse in the left wrist, then an evil spirit or 288 289 witch was thought to be at work. If there was a pulse on both wrists, then the cause was deemed natural (Maskarinec 1995; Soubrouillard 1995). 290

291 Traditional healers could diagnose between magico-religious and physical causes 292 of illness using specific acts of divination. One common technique was known as 293 jokana, of which there were several similar varieties. During the process of jokana the traditional healer would take a few pieces of rice from a small pile on a plate, 294 295 name a general magico-religious category of illness, and then determine the stated 296 category's presence based on the pattern of rice as the traditional healer separated 297 them. In theory, the traditional healer would perform this lengthy process each time. 298 In reality, the traditional healer shortcuted this time consuming process and 299 performed what the traditional healer found intuitively true (Reinhard 1976).

Traditional healers could diagnose through elaborate performances. During these 300 301 performances, traditional healers could offer animals, food, or other items to the 302 gods or ancestors to receive an answer about the patient's illness (Sagant 1976; Brenman et al. 2014). Other times, traditional healers could perform recitals adopted 303 304 from traditional healer texts and/or other technical maps with fixed cosmologies about Nepali self-hood and culture (Soubrouillard 1995). For example, traditional 305 306 healers could recite historical tales about local spirits before exhorting them to leave 307 the afflicted humans alone and to return to the wilderness where they belonged. 308 While these narrative recitals aimed to identify a singular spirit, sometimes singling 309 out just one was not possible, and in these cases, the traditional healer would have to 310 appease each offending spirit (Maskarinec 1995; Sidky 2008).

Some urban traditional healers involved the patient's friends and family for 311 312 diagnostic interpretation. As a result, those involved made the diagnostic and 313 curative events clearer through personal elaboration of the traditional healer's original findings (Maskarinec 1995; Skultans 1988). In rural settings, where close 314 315 ones can form a constant backdrop to the patient's life, no particular emphasis was 316 placed on outsider attendance.

317 Treatment

318 Our review revealed a wide range of traditional healer treatment styles including 319 traditional healer and/or patient altered states of consciousness, spoken rituals, and

320 non-spoken rituals. Some treatments overlapped with diagnostic approaches. While

- traditional healers applied their treatments broadly across different disease states, 321
- many specifically reserved altered states of consciousness and non-spoken rituals 322

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323 specifically for considerable mental distress (Hitchcock and Jones 1976; Regmi

324 1987; Skultans 1988; Desjarlais 1992; Soubrouillard 1995; Hardman 1996; Peters
325 2007; Subba 2007; Sidky 2010).

326 Relevant to the traditional healer's ability to treat mental distress, traditional 327 healers have been the center of debate with regard to their own possible 328 psychopathology (Paul 1976). Traditional healers generally would undergo an 329 initiation process during which they therapeutically transformed from possible 330 psychosis to a more organized and integrated social identity. Afterwards, they 331 would willfully enter in and out of controlled altered states of consciousness, 332 sometimes referred to as an ecstatic state, distinguish between ordinary and non-333 ordinary realities, and deliberately engage in meaningful conversation about the 334 cosmology of society (Sidky 2008).

For patients, each individual would first deeply concentrate through drugs, sweat lodges, vision quests, breathing exercises, percussion instruments, or complex meditation and imagery exercises. Ego boundaries would then dissolve leading to the psychological and sometimes terrifying annihilation of the self. Eventually, the patient would develop a collaborative relationship between their revealed unconscious and conscious selves (van Leeuwen 2008; Peters 2004).

Traditional healers, both well- or ill-intentioned, delivered mantra (spoken 341 342 prayer, hymns, or chanting) or *tantra* (bodies of text or schools of thought or 343 sometimes a meaningless term spoken with *manntra*) to either heal clients or harm 344 others (Soubrouillard 1995). For example, mantra and tantra could raise the saya 345 (soul) in people whose saya has fallen, correct the ancestor-person relationship, 346 treat ambiguous and confusing physical and psychosocial distress, or help a family 347 overcome grief over a child's unexpected death (Hardman 2004; Subba 2007). 348 However, mantra and tantra faced certain limitations. For example, while traditional healers insisted that they could control all major spirits using mantra 349 350 and *tantra*, they could not control spirits that caused madness (Sidky 2008).

351 Traditional healers could use materials and visualizations that accompanied their 352 *mantra* to guide and organize the body. For instance, the traditional healer could 353 bring up a *mantra* and illustration specifically to tackle madness or to do away with 354 minor malevolent spirits caused by their close physical proximity. Other techniques 355 included offering patients protective amulets to reduce the fear surrounding illness 356 (van Leeuwen 2008), performing *phukne* (blowing an evil spirit away), playing the dhangro (drum), and adorning and/or employing traditional items such as a 357 rudraksha mala (garland), ghanti bhayako mala (other type of garland), dumsi 358 359 kanda (a special cap with a porcupine quill), and mayurko pwankh (peacock feather) (Jimba et al. 2005). 360

361 Traditional healers could perform elaborate sacrificial ceremonies in the name of a greater cosmological force to not only diagnose but to treat illness. Traditional 362 363 healers, during multiple accounts, helped patients to overcome suffering, enhance 364 cultural human-animal relationships, prevent the occurrence of future traumatic events, treat feelings of a sinful past life, disharmony, or bhootvidya (psychiatric 365 366 conditions caused by gods, goddesses, demons, witches, and astrology), and feel assured of their child's safe return to or welcome from the Maoist Insurgency, a 367 368 civil war which raged from 1996 to 2006 through the countryside with death

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369 sentences, murders, purges, abductions, and other war crimes against humanity (R. 370 L. Jones 1976; Fournier 1976; Sidky et al. 2000; Peters 2007; Gewali 2008; Lohani

371 2010: Kohrt 2014).

372 Traditional healers and patients considered beatings particularly effective against 373 illnesses of unknown etiology given the presumption that such ailments and their 374 associated beatings both affected the whole individual (Winkler 1976; Gewali 375 2008). Discouragingly, violence, high drama, and a focus on the visceral reactions 376 of bulging eves, popping veins, and emesis at times resulted in considerable bodily 377 harm. Some *dhami-jhankri* went as far as threatening, suffocating (e.g., with water), beating, or applying a red-hot iron to patients (Jimba et al. 2005; van Leeuwen 378 379 2008; Alter 2014). Worse still, healer rituals, while viewed as a culturally appropriate form of divine justice among humans, could instead reinforce 380 381 oppressive power structures and human injustices against disenfranchised populations such as women rather than alleviating distress or innovating social order 382 383 (Lecomte-Tilouine 2009b).

384 **Theoretical Mechanisms of Healing**

Our review revealed several theoretical mechanisms which sought to explain why 385 386 patients perceive positive benefit from traditional healers. We categorized these mechanisms as traditional healing through crafting a symbolic spiritual narrative, 387 providing personal comfort, mobilizing social support, inducing an altered state of 388 389 consciousness, or facilitating spontaneous recovery.

390 The traditional healer in essence embraces the human need to connect with a 391 symbolic life and spiritual explanation for misfortune. The traditional healer crafts 392 the symbolic life within a culturally relevant narrative for the self and names and makes known visible unknown agents of affliction. In contrast to conventional 393 394 psychotherapy, the traditional healer alters and manipulates the patient's innately 395 lived human experience, subjective socio-cultural environment, and perceptual logic using myths and magico-religious symbols. Compared to biomedical explanatory 396 397 paradigms, whose causal hypotheses can prove considerably abstract and counter-398 intuitive, the metaphors from traditional healers, long since embedded within Nepal's cultural and socoio-political psyche, are more popular, acceptable, and 399 400 culturally logical. This allows for a form of therapy which is less explicit, more comprehensible, and emotionally palatable (Soubrouillard 1995; Craig et al. 2010; 401 402 Alter 2014).

403 Traditional healers can even vary the prominence and dramatic effect of their spiritual metaphors through the degree to which they act out magicio-religious 404 405 strength. For instance, traditional healers can perform visceral rituals while paying tedious attention to their procedure and craftsmanship of ritual and alter 406 407 paraphernalia (Nicoletti 2006). By demonstrating their healing powers through 408 psychodrama, traditional healers separate themselves from priests, who focus on the 409 life cycle, planting, harvesting, and temple worship, and doctors, who practice 410 professionalism (S. K. Jones 1976).

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411 Once the traditional healer activates locally relevant magico-religious symbols. they then remedy the mind by phenomenologically reorienting a patient's 412 413 experiential reality to permit the free expression of mental illness without the 414 reductionist vocabulary constraints of western psychiatry (Alter 2014; Brenman 415 et al. 2014). This phenomenological reorientation, sometimes dubbed as the heart-416 mind solution, can occur in the following sequence: 1) illness narrative (2) 417 physiological experience, and then (3) communication (Kohrt and Harper 2008). 418 Here, the patient will present to traditional healers not for mental health treatment 419 but for issues with ghosts, spirits, gods, or witches, after which the traditional healer, 420 as both a spiritual and community leader, establishes a consensus to hand 421 responsibility of sickness and misfortune to higher magico-religious beings (van 422 Leeuwen 2008).

423 Whether granting good luck or facilitating the free expression of anger, 424 traditional healers can craft rationalizations for patients when they are confounded 425 by issues related to illness, identity, and actions, the seemingly impossible, Nepal's storm afflicted, harsh environment, and so forth (Hitchcock and Jones 1976; 426 427 Messerschmidt 1976; Reinhard 1976; Regmi 1987; Skultans 1988; Desjarlais 1992; 428 Maskarinec 1995; Subba 2007; Kohrt and Harper 2008; van Leeuwen 2008). For 429 mundane quarrels between individuals or groups, traditional healers can attempt to 430 depersonalize the conflict and impersonally blame it on spirits as much as possible 431 (Michl 1976). In another example, the patient may suffer from a seemingly 432 unremitting illness. For their family, traditional healers can make an offering to the 433 gods in order to help them feel some psychological benefit from knowing they have 434 done everything they can. Among the worst scenarios, traditional healers can help 435 the family cope with an unnatural death (Hitchcock and Jones 1976).

436 Regardless of the exact ritual, the traditional healer reenacts a broader cosmology 437 so that the patient interfaces with a spiritual and aesthetic creation of the self to 438 create, sustain, and transmit a system of meanings for inexplicable physical, mental, 439 and social suffering. This interface within a separate metaphorical reality is more 440 locally understood, intimate, malleable, and psychologically penetrating than what 441 conventional spoken word or illness narratives have to offer (Peters 2007; Craig 442 et al. 2010; Sidky 2010). It permits the individual to admit powerlessness to an external locus of control, remove agency from the self, engage in intersubjective 443 444 dynamics (Desjarlais 1992), bypass local notions of stigma (Messerschmidt 1976; 445 Kohrt and Harper 2008), and perhaps even activate fundamental brain (neurognostic) structures responsible for therapeutic behavioral and cognitive healing (Sidky 446 447 2008). Through symbolic narration, the individual eventually depersonalizes, defuses, reinterprets, and unburdens unfortunate, baffling, and frightening events 448 449 while reintegrating their mental distress within a particularization of a more meaningful mythic world (Desjarlais 1992; Sidky 2010). This creates a satisfying 450 451 explanation that is internally consistent with traditional Nepali beliefs and meets the 452 underlying security and existential needs within the patient, curer, and community 453 (Hitchcock and Jones 1976; Reinhard 1976; Craig et al. 2010).

On a simpler level, the traditional healer can act as a therapeutic ally when
providing personal support, empathy, and higher expectations of treatment
(Hitchcock and Jones 1976). This invokes a placebo-like response that can aid

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depression, anxiety, insomnia, and sometimes even schizophrenia (Nicoletti 2006: 457 458 Sidky 2010). Traditional healers are particularly adept at eliciting empathy because 459 often they are community neighbors who can naturally establish personal relationships and familiarize themselves with longstanding family history (Sidky 460 2008). The traditional healer's familiar role in Nepali society allows them to 461 462 embody psychological attributes, expand their capacity for empathy, and express more sensitivity to their patient's needs (Hitchcock and Jones 1976). When 463 464 compared to medical providers, traditional healers appear more familiar, less 465 frightening, and less intrusive (Maskarinec 1995).

The traditional healer's familiarity is further fueled by their historical role as 466 467 doctor or priest in remote Nepali communities during which medical and religious specialties were not differentiated (S. K. Jones 1976). However, unlike conventional 468 469 priests or doctors who acquire roles through social inheritance, succession, or 470 biomedical training, traditional healers acquire supernatural strength through 471 spiritual inheritance, possession, divine intervention, and magician-religious training whether alone or under a guru. For instance, *jhankri* (traditional healers 472 from Eastern Nepal) carry a certain power and status regardless of their being 473 474 possessed by a divine entities. *Dhami* (western traditional healers) are primarily mediums who have no power in themselves, making *dhami* simple people like any 475 476 other. To heal, a deity possesses and performs the act through the *dhami* (Hitchcock 477 1976). With this perceived power, traditional healers, whether *dhami*, *jhankri*, or otherwise, possess the capacity to insert their treatments into the patient's private 478 479 and public selves because they too had to undergo a public and private initiatory 480 transformation (Hitchcock 1976; Maskarinec 1995).

481 The traditional healer's ability to raise expectations stems from how they are viewed by Nepali society. When strictly viewed within the scientific plane, 482 researchers may overlook the traditional healer's culturally perceived role as the 483 484 guardian of an individual's psychic equilibrium and the active mediator between the 485 human and spiritual realms (Nicoletti 2006; Sidky 2008). In fact, the traditional healer, through their spiritual role, can create religious explanatory frameworks to 486 487 treat an individual's psychological and sociological existential crises (Macdonald 488 1976; Craig et al. 2010), and it is within this psychosociological foundation that the traditional healer manipulates unconscious symbols of the body and self as a kind of 489 490 culturally relevant psychotherapy.

In tandem with the traditional healer's spiritual and psychological benefit, the 491 traditional healer may mobilize social support directly or indirectly. For instance, 492 493 with the reintegration of child soldiers from the Maoist insurgency certain traditional healer rituals directly facilitate a patient's restoration back to an original 494 495 role or transformation to a new one during a liminal state, or a state between two social roles. Unfortunately, these social rituals may also lead to the loss of 496 497 opportunities during the possible transition to a more submissive role, for instance 498 when girl soldiers must return to a patriarchal society (Kohrt 2014).

499 The traditional healer can indirectly mobilize social support as the family rallies 500 together behind a patient whose magico-religious explanation for illness exonerates 501 them from more stigmatizing mental illness. Social support and magico-religious 502 involvement may even allow for material rewards, relief from unpleasant work

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503 responsibilities, reduced conflict from the authority over them, and upward mobility 504 in status (S. K. Jones 1976; Skultans 1988). Social support helps to bind the patient 505 and their family more closely together and provide attention, a sense of inclusion, 506 and a feeling of comfort. Magico-religious illness states and traditional healer rituals 507 can also offer a safe space in which the patient can express their pain, personal and 508 social conflict, distress, anger, social problems, and sometimes actual mental illness 509 without directly attacking their oppressors. In this way, traditional healers help 510 patients grasp a profoundly complex life situation by expressing aspects of themselves previously unexpressed (Peters 2004; van Leeuwen 2008; Sapkota et al. 511 512 2014). Hence, traditional healers are thought to be particularly effective for 513 psychosomatic illnesses and disenfranchised populations such as marginalized or 514 unmarried women with a lower position in society and very little chance of 515 advancing their status (Peters 2007; Sidky 2008; Hyam 2019).

516 Because the patient may perceive physical relief during the process of the 517 traditional healer's treatment, they may in turn develop more capacity to tackle 518 other underlying sociological issues. This explanation flows with the Nepali belief 519 that mental distress is an everyday occurrence which must be dealt with individually 520 (Chase and Sapkota 2017) and may explain why patients tend to attribute mental 521 relief following a traditional healer's intervention to an incidental benefit following 522 physical relief (Alter 2014).

523 The traditional healer may also induce a patient altered state of consciousness 524 through the healer's own learned dissociative experiences. Recent interpretation has 525 viewed altered states of consciousness less as abnormal but more as an alteration of 526 normal human consciousness through special psychophysiological states (Sidky 527 2008). Other interpretations view altered states of consciousness as a Jungian 528 transcendent function in which mystical experiences turn existential crisis into a transformational growth experience. In this shared state, the traditional healer can 529 530 provide a sense of understanding as well as an institutionalized framework for 531 proper expression of patient mental processes which have been compartmentalized and integrated into phenomena such as spirit possession (Sidky 2008). 532

533 However, critics have expressed skepticism about the degree to which the 534 traditional healer's intervention registers on a conscious level. Any speech during performances tends to be beyond the literal comprehension of both the traditional 535 536 healer and patient (Maskarinec 1995). Many patients or traditional healers are unable to decipher the traditional healer's rhetoric which often is in a specialized 537 and ambiguous vocabulary that is too idiosyncratic, non-indigenous, and special-538 539 ized, or archaic. Furthermore, patients can face difficulty when parsing the traditional healer's rhetoric given the acoustics and noise levels of the room 540 541 (Winkler 1976; Brown 1988). The traditional healer's performance may also be of questionable psychotherapeutic benefit in the setting of infants, the demented, the 542 543 very sick, and animals (e.g., cows or yaks) (Paul 1976).

On the whole, much of the reviewed literature primarily suggested that traditional
healers most effectively treat mental well-being in the case of less severe pathology.
In this light, others have theorized that patients perceive positive benefit from their
treatment because of the patient's underlying cyclically resolving disease state.
Conversely, severe, intractable, and less cyclical illnesses such as schizophrenia and

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549 obsessive-compulsive disorder have a harder time being treated through expecta-

550 tion, belief, and meaning-making. In other words, it would be expected for there to

be gradual improvement regardless of the diagnosis or treatment (Sidky 2008). Put

552 together, given the subjective nature of symptom resolution, outcomes should be 552

open to interpretation (Kohrt and Schreiber 1999).

554 Discussion

555 Our scoping review yielded 86 studies on the relationship between the interventions 556 of Nepali traditional healers and mental well-being, 65 of which were qualitative in study design. The reviewed literature covered a wide range of diagnostic and 557 558 treatment strategies including divination, pulse checks, recitals, offerings, spoken 559 and non-spoken rituals, and altered states of consciousness. The traditional healer's 560 interventional approach may not deeply depend on the exact technique. Rather, patients focus on whether the outcome relates to magico-religious and locally 561 relevant symbols such as spirits, gods, spells, astrology, and karma. Traditional 562 563 healers can craft these magico-religious constructs into digestible illness narratives, 564 offer empathy, raise expectations, and mobilize the patient's family and community 565 to provide personal and social support, induce altered states of consciousness to 566 facilitate catharsis, and/or shepherd the patient through an unpleasant time until spontaneous recovery from cyclical disease processes. 567

568 While the literature suggests that Nepali traditional healers share elements with 569 Western psychotherapy, that is not to say that they are psychotherapists. In addition 570 to or in place of conventional psychotherapy, traditional healers act like flexible social actors and leaders who transform into magico-religious leaders that narrate 571 and act out meaningful, affective, and therapeutic mythological stories within the 572 context of local cosmological beliefs. The traditional healer as social actor and 573 leader can even involve the patient's family and community to collaborate with the 574 patient, elaborate upon the traditional healer's diagnosis, and restore family 575 structure, community identity, and social cohesion. 576

The traditional healer fuels the patient's superstition about why things happen or 577 did not happen through an intuitive misunderstanding of cause-and-effect relation-578 579 ships. The treatment process relates back to the patient's issues and ailments and gives the impression that traditional healers can influence otherwise unpre-580 dictable and significant events without relying on the seemingly unnatural 581 582 constructs of psychological insight and standard psychotherapeutic verbalization (Singh 2018). In the face of misfortune and confusion, patients generate meaning, 583 584 restructure their cognition, and freely express themselves.

585 Overall, the traditional healer's unconventional approach to healing the mind, 586 body, and spirit raises the question of whether biomedicine will ever fully unravel 587 the mechanisms of traditional healing. Nonetheless, the contrasting nature between 588 traditional healers and conventional psychotherapy, specifically the spiritual 589 dimension in which the former operates but the latter does not, can at least 590 partially explain why remote patients prefer traditional healers over medical

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providers, even when doing so paradoxically can come at a greater financial cost(Regmi 1987).

593 Thus far, the Nepali-based discussion on non-spoken rituals, altered states of 594 consciousness, and several mechanistic theories of traditional healing bears striking 595 resemblance to the broader cross-cultural work from which we based our scoping 596 review (Winkelman 2004, 2010; Nortje et al. 2016; van der Watt et al. 2018). 597 Namely, Nepali traditional healers share with non-Nepali traditional healers the 598 general techniques of hypnotic drumming, dissociative states, and physical exertion 599 in the setting of, but not expressly for, mental distress. Furthermore, scholars have theorized mechanisms of healing within Nepal also described in other traditional 600 healing cultures. These include meaning-making, enhanced community cohesion, 601 and spontaneous recovery because of the natural course of chronic remitting 602 603 illnesses like bipolar disorder or pain.

604 Current Findings and Potential Gaps in Knowledge

We devised an overall pathways to care model to better visualize the connections among our synthesized findings and to highlight themes about the relationship between traditional healers and mental well-being that may be present but are scarcely covered by the current literature (Fig. 2). Our model is adapted from prior work by Pham et al. (2020) who themselves adopted a mechanisms of action approach to breaking down a specific psychosocial intervention into its specific and non-specific ingredients/processes (Alavi and Sanderson 2015).

612 For our model, we fit our results within the broader cultural literature on culture and mental well-being in Nepal and highlighted relative gaps in knowledge (Chase 613 614 and Sapkota 2017; Nortje et al. 2016; van der Watt et al. 2018). We also offer a written description of our model below. However, we must again emphasize the 615 616 overall heterogeneity within Nepal's cultural makeup. Therefore, while our 617 pathways to care model captures a broad snapshot of the academic community's current knowledge state, it does so by sacrificing the nuanced values inherent within 618 each of Nepal's cultural systems. 619

620 Access to Care

The origins of Nepali mental distress may fall under biological, psychological, 621 sociological, and/or spiritual categories. Given the cultural dimensions of mental 622 623 health stigma, medical illiteracy, and sociological oppression, patients may selfinterpret their underlying psychological and sociological distress into a culturally 624 625 appropriate care-seeking behavior. For instance, patients may interpret their mental distress as a less stigmatized biological or magico-religious complaint. Patients will 626 627 then present either to the biomedical treatment realm (e.g., doctors), the magico-628 religious treatment realm (e.g., traditional healers), or both depending on the context 629 of their environment and illness. Few studies have investigated the specific social 630 and economic barriers which influence the self-interpretation from a primary psychological or social issue to a medical or spiritual one. Of interest may be the 631

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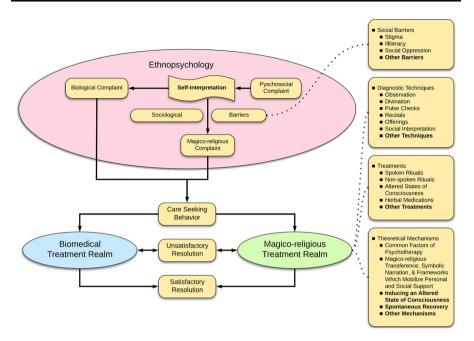


Fig. 2 A pathway to care model highlighting current findings and gaps in knowledge

- 632 precise process of self-interpretation from stigmatized to less stigmatized com-
- 633 plaints and other magico-religious complaints not yet biomedically studied.
- 634 Interventions

Magico-religious diagnostic techniques include divination, pulse checks, recitals, offerings, and social interpretation. Common treatments include non-spoken rituals, spoken rituals, and altered states of consciousness. *Relationships may exist between a patient's specific care seeking behavior and the traditional healer's chosen intervention. Furthermore, relative to Nepal's deep cultural diversity, the scarce available research hints at other diagnostic techniques and treatments not yet biomedically studied.*

642 Theoretical Mechanisms of Healing

Traditional healers elicit subjective improvement spiritually through symbolic 643 644 narration, psychologically through personal support, and socially through mobiliz-645 ing family and community. They can also induce an altered state of consciousness or more simply facilitate spontaneous recovery. Relationships may exist between a 646 647 traditional healer's specific intervention and the patient's mechanism of healing. 648 Insufficient research has formally investigated the mechanisms of magico-religious 649 healing, especially with the help of locally validated interview structures, objective 650 rating scales, neuroimaging approaches, and/or other psychophysiological

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651 *measurements of bodily states, thus hinting at other phenomenological processes* 652 *not yet biomedically studied.*

653 Resolution of Suffering

A patient may perceive a satisfactory resolution of suffering after their first visit to either the medical provider or the traditional healer. On the other hand, a patient may perceive an unsatisfactory resolution if they receive an intervention that lacks the biomedical or magico-religious background which they inherently desire. *Scarce research has investigated the outcomes of magico-religious healing, thus hinting at relationships between a patient's specific mechanism of healing and their satisfaction level.*

661 Given the number of exceptions which exist for a culturally diverse country such as Nepal, researchers should avoid making pan generalizations about cultural tenets 662 663 and by extension magico-religious ideologies from our paper (Tol et al. 2005; Cassaniti and Luhrmann 2014). Such over simplifications may inadvertently exotify 664 folk theories of illness from the possible underlying psychological and physical 665 666 processes. Furthermore, personal testimonials regarding traditional healers and mental health cannot be taken literally, and many published anthropologists have 667 668 viewed their own findings with some level of skepticism (Kohrt and Schreiber 1999; 669 Krippner and Combs 2002; Castillo 2004; Sidky 2010).

670 Limitations

Given the diverse Nepali population, the available literature did not cover every 671 672 region nor every culture, particularly those less accessible to prior researchers. For 673 instance, healers from the northern mountainous margins of Nepal went underrep-674 resented likely because of our search strategy and/or inclusion/exclusion criteria. The unequal geographic distribution of our included studies may also reflect how 675 the late 1990s to early 2000s Maoist Insurgency limited where researchers could 676 677 safely travel, especially in certain rural areas. By focusing on the therapeutic aspects of patient-healer interactions and their associated psychological outcomes, we also 678 679 neglected more formalized practitioners whose work may confer ritualistic healing 680 on a more subtle level. The reviewed literature relied heavily on western diagnostics which poorly distinguish subtly dissimilar states such as dissociative trance and 681 682 primary thought disorders. The reviewed literature also infrequently focused on the negative aspects of spiritual healing, possibly due to publication bias, retrospective 683 684 bias, participant bias to please the researchers, or observer bias-all biases inherent from a predominantly ethnographic research base. 685

The available literature used inconsistent terminology, especially in regard to traditional healers and mental health, most likely to avoid relying on psychiatric terminology which would have missed out on nuanced Nepali phenomenological states. As a result, our systematic search had limited utility even when broadened to a scoping review, and we undoubtedly did not exhaust the full scope of the relevant literature. Furthermore, we relied on papers written primarily by Western authors

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making the scoping review itself susceptible to western bias. This is made
additionally problematic in light of the Nepali preference to report physical
complaints over mental which consequently blurs the line among physical illness,
somatic complaints, and "true" psychiatric disease.

696 Future Research Recommendations

697 Further literature review could expand this scoping review and that of Chase et al.'s (2018) into the realm of more formalized traditional practitioners such as 698 Ayurvedic, Tibetan, and/or Chinese medicine practitioners whose alternative 699 techniques and interactions may confer psychological benefit with or without the 700 701 ritualistic interactions emphasized in this review. As this scoping review focused on diagnostic approaches, treatments, and theoretical mechanisms of healing, and 702 703 Chase et al. (2018) on culture, other reviews could focus on different aspects of patient-healer pathways to care including epidemiological and economic patient-704 healer data, traditional healer demographics, perceptions of traditional healers, 705 barriers to care, chief complaints, "idioms of distress," duration and frequency of 706 707 traditional healer encounters, etc. Additional review of the Nepali written literature 708 would reveal insights previously hidden from English-locked reviews such as ours. 709 Research teams who work across the boundaries of culture, medicine, and 710 psychiatry should, as Höfer (1992) once suggested, frame the broader therapeutic 711 strategies of ritual and its continued gaps in knowledge through systematic, 712 empirically sound, though still culturally adapted, methods including locally

validated psychological tests, medical examinations and the like (Höfer 1992). To date, there are few studies which have taken a systematic, objective approach to examining the relationship between traditional healers and mental health in Nepal, e.g., interventional clinical studies, double blinding of traditional and biomedical treatment, control arms to adjust for confounding factors.

Consider the traditional healers from Kalabo, Zambia who have suggested 718 719 additional utility from traditional healer services in hospital settings, an option not 720 unlike the priest-physician relationship within US hospitals (Stekelenburg et al. 2005). If future research reveals similar desires among Nepali healer-goers then one 721 722 research design could evaluate the efficacy of in-hospital traditional healer consultations. Alternatively, one could apply this approach within the outpatient 723 setting with medical providers instead permitting or not permitting the patient to 724 725 enlist outside, parallel traditional healer treatment. Established researchers could utilize implementation science research methods, e.g., the Consolidated Framework 726 727 for Implementation Research, to study how collaboration succeeds or fails based on programmatic, contextual, provider, and client-level factors. 728

For epidemiological and economic data surrounding traditional healer utilization, the research team could draft, pilot, and deliver a structured survey instrument based upon prior studies. Because traditional healers may treat mental distress secondary to patient reported physical or supernatural injury, researchers ought to caution themselves against surveys which exclusively measure mental illness using conventional psychological terminology.

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735 One area of interest has been the objective measurement of symptom resolution 736 through neuroimaging and other psychophysiological measurements of bodily states 737 (Seligman 2018). Prior cross-cultural work by Winkelman (2004, 2010) proposed a 738 neurotheological explanation in which healer induced feelings of self-confidence, 739 authority, belief and expectation intensify connections between the limbic system 740 and lower brain structures. Here, increased activation discharges synchronous slow 741 (theta) waves into the frontal brain supposedly creating an integrative mode of 742 consciousness. His theories elegantly connect the general human psychophysiolog-743 ical tendency to the emotional, cognitive, and psychoneuroimmunlogical responses 744 (Winkelman 2004, 2010). However, recent neuroimaging, brain biology, and chemistry studies have criticized his theories for lacking empirical justification and 745 compatibility with modern findings (Sidky 2008). 746

Other innovative and scientifically sound neuroimaging studies on consciousness, 747 while faintly related to traditional healer and patient altered states of consciousness, 748 749 may also inform future neurobiological work on healers and mental-well-being in 750 Nepal (Lutz et al. 2007, 2008a, b; Marcia 2003; Perlman et al. 2010; Acunzo et al. 2013; Seppälä et al. 2014; Dahl et al. 2015). Richard Davidson has arguably 751 752 pioneered this field by applying functional magnetic resonance imaging to 753 extensively study the mechanisms of brain function and new therapeutic approaches 754 for psychology. For instance, his findings have demonstrated how mental training 755 and meditation can increase the strength of activation in the left prefrontal cortex, 756 which houses positive emotions, while dampening the right prefrontal cortex, which 757 houses negative emotions. His other studies have found similar neurocorrelates between mental training and mediation and the insula, amygdala, right temporo-758 759 parietal junction, right posterior superior temporal sulcus, limbic circuitry, and 760 immune system (Davidson and Goleman 1977; Davidson et al. 2003; Davidson and 761 Lutz 2008).

However, such "gold standard" measures, though critical in their own right, may, 762 763 alone, fail to enlist participants who live far away from clinical settings or worse, test the ethnical limits of consent and blinded treatment among vulnerable patient 764 populations. Furthermore, though traditional healers are finding themselves 765 766 interacting more and more with biomedical professionals, research data from idealistic, controlled clinical settings provide limited utility for the rural and 767 768 migratory residents who traditional healers primarily tend to. Instead, the Community-Based Participatory Research model would better capture the rural 769 pathways to care which extend across formal and informal health system actors 770 771 (Wilson et al. 2018).

772 As an example, researchers could explore the intertwined lives of traditional 773 healers and medical providers as they treat shared patients in search of a holistic 774 sense of relief. As the patient traverses their personalized care network, researchers could cross-culturally compare seemingly disparate explanatory models, diagnoses, 775 776 and treatments. And rather than focusing entirely on biomedical definitions of 777 symptoms, interventions, and outcomes, researchers could follow local conceptions 778 of self, e.g., man (heart-mind), dimaag (brain), distress, e.g., fallen saya (soul), and 779 traditional healers, e.g., amchi, as defined and volunteered by the patients, traditional healers, and perhaps even medical providers themselves. Local 780

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Domain	Potential gaps
Study design	Systematic/scoping review of epidemiological and economic patient-healer data, formalized traditional healers, healer-related pathways to care, healer-related
	psychological outcomes, and Nepali written literature
	Community Field-based Research (CFBR)
	Technological avenues for research communication across parallel study groups
	Interventional clinical trials research
	Consolidated Framework for Implementation Research (CFIR)
Structured instruments	Medical examinations and psychometrics
	Standardized qualitative research tools to elicit illness narratives
	Objective rating scales to measure traditional healer interventions and magico-religious and psychiatric phenomena
	Neurodiagnostic approaches to measure biological underpinnings
Access to care	Specific contexts which influence access to care
	Social and economic barriers
	Common patterns of self-interpretation
	Idioms of distress not yet biomedically studied
	Solutions to overcoming barriers
	Solutions to better match care seeking behavior to the appropriate intervention
Interventions	Interventions not yet biomedically studied
Ċ	Relationships which link specific patient care-seeking behaviors to traditional healer interventions
Theoretical mechanisms of healing	Mechanisms of healing not yet biomedically theorized
	Relationships which link specific traditional healer interventions to the patient's mechanism of healing
5-1	Other common factors in psychotherapy underlying magico-religious healing besides empathy and raised expectations
	The comparison between traditional healers and other evidence-based providers with respect to common factors in psychotherapy
	Solutions for evidence-based providers to better interface with the factors of psychotherapy specific to traditional healers
Outcomes	Outcomes of magico-religious healing
	How patients seek treatment if they encounter an unsatisfactory resolution
	Relationships which link specific patient mechanisms of healing to their perceived level of satisfaction

Table 3 Ideas for future research

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traditional healers might even assist the research team with negotiating and
translating local disease causality models, notions of truth, relevant scientific
concepts, and research priorities not shared across all cultures (Adams et al. 2005;
Adams et al. 2008; Shrestha and Lediard 1980). Research teams could take a
conventional field-based approach or even explore new technological avenues for
communication, documentation, and analysis of complex, parallel study groups
(Bhatta et al. 2015; Chib et al. 2015; Style et al. 2017; Ni et al. 2020).

788 However, researchers should balance the naturalistic approach of Community-789 Based Research Participation with one or several structured and locally validated 790 instruments. For instance, Craig et al. (2010) applied an adaptation of the McGill 791 Illness Narrative Interview (MINI) to systematically study illness narratives and 792 explanatory frameworks among patients in Mustang, many of whom sought 793 treatment from local traditional healers. Alternatively, Kohrt et al. (2020) used a 794 locally validated, structured observational rating scale, titled Enhancing Assessment 795 of Common Therapeutic factors (ENACT), to measure the psychotherapeutic 796 factors in common between traditional healers and conventional psychotherapists 797 within the Central Middle Hills of Nepal. Yet, blind adoption of structured 798 questionnaires, interview formats, and biomedical diagnostics could also hamper 799 rather than facilitate meaningful data collection. For instance, van Ommeren et al. 800 (2000) argued that the Composite International Diagnostic Interview (CIDI), which 801 assesses psychiatric somatic complaints, focuses too heavily on (1) the biomedical 802 framework and (2) the assumption that all medical providers deliver diagnoses to 803 their patients, thus confounding its cultural validity in Nepal. In other examples, 804 questions from the locally validated Barriers to Access Care Evaluation (BACE) 805 scale (Clement et al. 2012), applied by Kohrt et al. (2018) to assess stigma reduction 806 among mental healthcare providers, and even the aforementioned McGill Illness Narrative Interview can prove restricting and at times misleading when measuring 807 808 tacit community biases surrounding indigenous belief models (Pham et al. 2020) or 809 blurred distinctions between the self and other, religion and medicine, etc. (Craig 810 et al. 2010; Kohrt et al. 2018).

811 We now summarize the aforementioned ideas for future research (see Table 3).

5

812 Conclusion

In Nepal, traditional healers' perceived impact appears greatest for mild to moderate 813 814 forms of psychological distress. However, the methodological and sample heterogeneity preclude uniform conclusions about traditional healing with Nepal, 815 816 or more broadly in global appraisals of traditional healing. Further research should 817 employ methods which are both empirically sound and culturally adapted to explore 818 the role of traditional healers in mental health. Ultimately, by completing the picture 819 on traditional healers and mental well-being, social scientists, clinicians, and public health practitioners can better understand how and for whom traditional healing 820 821 impacts distress. The work is also useful to uncover the diverse conceptions of self 822 and how these models shape healing. Medical providers, researchers, and public 823 officials can create a collaborative, integrative, and interdisciplinary approach to

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824 offer better wrap around care in a country with serious ongoing mental healthcare 825 disparities. Globally, researchers can apply similar approaches to determine how 826 traditional healers uniquely respond to the non-pharmacological and therapeutic 827 needs of developing countries without resorting to overly prescriptive and medically 828 imperialistic treatment models.

829 Acknowledgements We thank three anonymous reviewers for their expertise, time, and energy which strongly shaped earlier drafts of the manuscript.

Funding The authors received no specific funding for this work. The first author (Tony V Pham) was
supported by a VECD Global Health Fellowship, funded by the National Institute of Mental Health
(NIMH) and the Fogarty International Center (FIC) of the NIH (D43 TW009337). The senior author
(Brandon A. Kohrt) was supported by the NIH (K01MH104310).

837 Compliance with Ethical Standards

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 839 Conflict of interest On behalf of all authors, the corresponding author states that there is no conflict of interest.

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