TRADITIONAL AND ALTERNATIVE MEDICINE TREATMENTS IN CHILD AND ADOLESCENT MENTAL HEALTH

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Traditional medicine is defined by the World Health Organization (WHO) as “the sum total of the knowledge, skills and practices based on the theories, beliefs and experiences indigenous to different cultures, whether explicable or not, used in the maintenance of health, as well as in the prevention, diagnosis, improvement or treatment of physical and mental illnesses” (p15) (World Health Organization, 2013). Traditional medicine spans a wide range of therapies, from herbal or medicinal treatments to physical and procedural treatments such as massage, acupuncture, yoga, and spiritual and mind-body therapies. When traditional medicine is used in populations for which it is not indigenous—such as in a developed country—it becomes known as complementary and alternative medicine (CAM). In this chapter, we will use traditional medicine and CAM interchangeably and refer to Western conventional treatments, which have a scientific basis, as orthodox or scientific medicine.

The reasons people choose to use CAM vary widely by country and community and the consumer profile also varies by age, socio-economic status and gender (WHO, 2013). CAM is popular with the general public in developed countries, although the level of scientific evidence for efficacy is at best modest. In the case of child and adolescent psychiatry, the evidence is particularly scarce, partly due to ethical concerns in conducting trials in this age group. In some Asian and African countries traditional medicine forms the primary mode of health care for 80% of the population (World Health Organization, 2008). Often, a patient will have already used CAM treatments before seeing a psychiatrist and, although much of the literature focuses on adults, children from such cultural backgrounds may well have been treated with the same remedies before presenting for clinical assessment.

In many countries, traditional and scientific medicine often go hand in hand, with scientific medicine used to suppress symptoms and traditional medicine to restore the body to its “natural balance.” This chapter will review evidence for the efficacy of traditional medicine and note traditional treatments which, effective or not, a psychiatrist or other mental health professional working in such environments is likely to encounter. Traditional beliefs or interpretations of psychiatric disorders are important to the psychiatrist who aims to provide culturally sensitive and acceptable therapy: some practices described in this chapter may be antiquated, but are included for historical purposes and because there may be pockets of traditional practice in those countries. These examples also serve to highlight some of the challenges associated with combining traditional and orthodox treatments, or transitioning from one form of treatment to another. The chapter is organised by treatment type (herbal medicines, meditation, trance, sorcery, religious healing, and acupuncture) and where appropriate by condition (e.g., anxiety, depression, schizophrenia). Safety and adverse events are also presented where relevant.
<table>
<thead>
<tr>
<th>Treatment</th>
<th>Indications</th>
<th>Administration/mechanism</th>
<th>Evidence of efficacy</th>
<th>Comments and adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>St John’s Wort</td>
<td>Depression, Anxiety, ADHD</td>
<td>As an extract. Active compounds are thought to be hypericin and/or hyperforin.</td>
<td>• Open label trials have indicated children with (mostly mild) depression improve significantly. More rigorous larger trials showed no significant benefit.</td>
<td>• Well tolerated. Potentiate serotonergic effects of selective serotonin reuptake inhibitors and triptans. Decreases anticonvulsive effects of carbamazepine and phenytoin. Reduces bronchodilator effects of theophylline. Interactions with many other drugs and medications, including non-psychotropic drugs. Seizures from overdose.</td>
</tr>
<tr>
<td>Omega-3 fatty acids</td>
<td>Depression, ADHD, Bipolar disorder, Schizophrenia</td>
<td>Long-chain omega-3 fatty acids (eicosapentaenoic and docosahexanenoic) improve cell membrane fluidity, are precursors to less-inflammatory cytokines, and may alter expression of neurotransmitter receptors. Children with ADHD have lower blood levels of long-chain omega-3s than children without ADHD.</td>
<td>• A few RCTs have been undertaken in children with depression or bipolar disorder, but used biologically active placebos. Modest improvements in those taking omega-3 supplements. RCT in youths at risk of psychotic disorder; those treated with omega-3 had significantly reduced symptoms and improved functioning compared with placebo. Most data showed no benefit for ADHD.</td>
<td>Well tolerated and safe even at high doses. Relatively mild side effects: • Gastrointestinal problems (e.g., diarrhoea). Fishy breath or aftertaste. Skin rashes and urinary problems are rare. At high doses, can increase the risk of bleeding. Care should be taken in patients with a pre-existing haematological condition. Concerns of heavy metal contaminants from marine sources of omega-3.</td>
</tr>
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</table>

<table>
<thead>
<tr>
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<th>Indications</th>
<th>Administration/marker mechanism</th>
<th>Evidence of efficacy</th>
<th>Comments and adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Kava (Piper methysticum)</strong></td>
<td>Anxiety</td>
<td>As an extract</td>
<td>In adults, RCTs showed kava reduced anxiety symptoms but other RCTS found no improvement</td>
<td>Hepatotoxicity</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not recommended for use in children</td>
</tr>
<tr>
<td><strong>Valerian (Valeriana officinalis)</strong></td>
<td>Anxiety</td>
<td>Valerian root extract combined with lemon balm leaf extract</td>
<td>In combination, low doses reduced state anxiety in healthy young adults, in a cross-over study</td>
<td>Inadequate evidence to recommend use in children</td>
</tr>
<tr>
<td><strong>Lemon balm (Melissa officinalis)</strong></td>
<td>Anxiety</td>
<td></td>
<td>Open-label study in children with restlessness and dysomnia showed improvement in symptoms, but tests of significance were not conducted</td>
<td></td>
</tr>
<tr>
<td><strong>Elimination and exclusion diets</strong></td>
<td>ADHD</td>
<td>Removal of dietary substances (mostly artificial flavours and colours, salicylates) which are associated with hyperactivity</td>
<td>Trials show conflicting results</td>
<td>Depending on which foods or nutrients are removed, the restrictions of an elimination diet means a child can be put at risk of other nutritional deficiencies</td>
</tr>
<tr>
<td><strong>Autistic spectrum disorder</strong></td>
<td>Removal of gluten and casein</td>
<td>Conflicting results from two studies assessed in Cochrane review</td>
<td>Some children may be sensitive to particular food chemicals and thus benefit from those chemicals being removed from their diets</td>
<td>The diet places a burden on parents and children, in terms of time, lifestyle changes and finances</td>
</tr>
<tr>
<td><strong>Gingko biloba</strong></td>
<td>ADHD</td>
<td>Oral</td>
<td>No effect on ADHD</td>
<td>Risk of subdural or anterior eye bleeds</td>
</tr>
<tr>
<td><strong>Vitamins and Minerals (Micro-Nutrients)</strong></td>
<td>ADHD</td>
<td>Oral</td>
<td>No evidence</td>
<td>Vitamins and minerals only needed to meet nutritional requirements in children with ADHD</td>
</tr>
</tbody>
</table>
EVIDENCE FOR COMPLEMENTARY AND ALTERNATIVE MEDICINES

Herbal and Dietary Therapies

In Western, high income societies, CAM used in treating child and adolescent psychiatric conditions include St John’s wort for depression, kava for anxiety, omega-3 fatty acids for attention deficit hyperactivity disorder (ADHD) and depression, elimination diets for autism and ADHD, and valerian and lemon balm for anxiety. This is not exclusive to high income countries and avoidance of some foods as a means of managing autistic behaviours has also been used in Kenya (Gona et al, 2016). The evidence or lack thereof for these treatments’ efficacy has been reviewed and discussed elsewhere (Rey et al, 2011; Soh & Walter, 2008; Arnold et al, 2013) and is summarised in Table J.2.1. Additionally, homeopathy may be considered an herbal treatment. Homeopathy uses serial dilutions of source materials with succussion (shaking) at each stage. Considering the resulting, extremely diluted solutions, there would not be any of the source substances remaining in the tincture or decoctions administered. Homeopathy has been used to treat ADHD, but a Cochrane review found “no evidence that homeopathy has a significant impact on the overall severity, core symptoms or related outcomes of children diagnosed with attention deficit hyperactivity disorder” (p12) (Heirs & Dean, 2007).

While it is likely a psychiatrist will find that patients from such backgrounds have used herbal treatments before presenting for assessment, this does not mean that the traditional medicines are (or are not) effective.

Schizophrenia

A number of herbal remedies from China and India have been traditionally used to treat schizophrenia. In China, traditional medicine, including herbal medicines, was the main treatment for psychiatric illnesses until the advent of antipsychotic medications. A review of Chinese herbal medicines found no evidence that herbs on their own were more effective than antipsychotic medications, but there was a possibility of benefit by adding the herbs to an antipsychotic regimen (Rathbone et al, 2010). Herbal remedies may also attenuate the adverse effects of antipsychotic drugs, such as constipation, thus promoting compliance. None of the seven RCTs reviewed trialled herbs against placebo. The studies were conducted in adults and used a range of herbal medicines: two different versions of dang guicheng qi tang (five or seven different herbs) with an additional 17 herbs used as needed for “blood stagnation” and hallucinations, restlessness, and insomnia; xiaoyao san (a mixture of 10 herbs); ginkgo biloba; xingshen (containing seven herbs); or a combination of Hirudo seu Whitmania and the rhizoma of Rheum palmatum. When ginkgo biloba was combined with antipsychotic medication, it yielded greater improvement in schizophrenia patients’ mental state compared with the combined results of the other herbal data, though the reviewers cautioned that trials were very small. The studies of Chinese herbal medicine for schizophrenia assessed in that review were published from 1987 to 2001. Their quality was modest at best: not all studies provided the dosages for herbs or antipsychotic drugs and not all studies were double blind. Another issue is that only one of the studies followed the traditional Chinese...
### Table J.2.2. Summary of Traditional Treatments

<table>
<thead>
<tr>
<th>Traditional treatment</th>
<th>Examples</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herbal medicine</td>
<td>• Indian Ayurvedic</td>
<td>• Schizophrenia</td>
</tr>
<tr>
<td></td>
<td>• Chinese</td>
<td>• Bipolar disorder</td>
</tr>
<tr>
<td></td>
<td>• Japanese</td>
<td>• Tourette disorder</td>
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<tr>
<td></td>
<td></td>
<td>• Depression</td>
</tr>
<tr>
<td>Meditation</td>
<td>• Concentrative</td>
<td>• ADHD</td>
</tr>
<tr>
<td></td>
<td>• Mindfulness</td>
<td>• Anxiety</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Depression</td>
</tr>
<tr>
<td>Trance</td>
<td></td>
<td>• Both cause and treatment; illnesses not specified but includes spirits and deities as cause</td>
</tr>
<tr>
<td>Sorcery</td>
<td>• Animal sacrifices</td>
<td>• Both cause and treatment; illnesses not specified but includes evil spirits as cause</td>
</tr>
<tr>
<td></td>
<td>• Confessions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Exorcism</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Purification ceremonies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Herbal treatments</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Charms and markings</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Witchcraft</td>
<td></td>
</tr>
<tr>
<td>Astrology</td>
<td>• Astrologer recommends</td>
<td>• Planets’ alignment as cause; illnesses not specified</td>
</tr>
<tr>
<td></td>
<td>rituals as cure</td>
<td></td>
</tr>
<tr>
<td>Religious healing</td>
<td>• Faith healing (e.g., Koranic)</td>
<td>• Includes evil spirits and demons as cause; illnesses not specified</td>
</tr>
<tr>
<td>Shamanism</td>
<td>• Rituals and prayers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Talismans and amulets</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Devil dancers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Pilgrimages</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Exorcism</td>
<td></td>
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<tr>
<td></td>
<td>• Charms</td>
<td></td>
</tr>
<tr>
<td>Acupuncture</td>
<td></td>
<td>• Depression</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Autistic spectrum disorder</td>
</tr>
</tbody>
</table>

**Rauwolfia serpentina**

Rauwolfia serpentina is one of the fundamental herbs used in traditional Chinese medicine, where it has the name *shēgēn mù* (Chinese: 蛇根木) or *yǐndū shēmù* (Chinese: 印度蛇木). It was also used in India for centuries to treat a variety of conditions. Rauwolfia serpentina contains several bioactive chemicals, including yohimbine, and reserpine. The alkaloid reserpine was introduced into Western medicine as an antipsychotic in 1954. Although effective, side effects lessened its popularity. The ability of reserpine to induce depression (now questioned) and deplete brain amines became one of the pillars of the monoamine theory of mood disorders.

Medicine’s “pattern differentiation,” where patients were assigned to one of two herbal medicine regimens in line with traditional customizing of treatment to the individual. Nevertheless, the potential efficacy shown by this preliminary data indicates the need for better-quality and larger studies for these herbal medicines.

Another traditional Chinese herbal remedy, *Wendan decoction*, is used for schizophrenia-like symptoms, and the herb *Huperzia serrata* for memory loss in schizophrenia. Deng and Xu’s (2017) review of 15 randomised controlled trials in participants aged 15-71 years showed that the short-term global state improved with Wendan decoction when compared with placebo or no treatment. There was no difference in short-term mental state when compared with antipsychotic drugs, although the decoction was associated with fewer extrapyramidal effects. When combined with normal- or low-dose antipsychotics there was a greater short-term improvement than when using normal-dose antipsychotics alone.
A variety of materials, vegetable and animal, are used in traditional Chinese medicine. In this picture, ling zhi mushrooms, dried snake, turtle shells, luo han guo (a type of fruit) and ginseng.

Thus, there is a suggestion that Wendan decoction may benefit people with schizophrenia but the overall quality of the evidence is moderate to poor. The herb *Huperzia serrata* (*qianceng ta*) contains the active ingredient, HupA, a strong reversible inhibitor of acetylcholinesterase. Ma et al’s (2007) review cited one study related to schizophrenia, where HupA significantly improved memory function in patients with schizophrenia.

Ayurvedic medicine, a traditional Indian medicine system, is similar in its philosophy to traditional Chinese medicine (Agarwal et al, 2010). A Cochrane review of three RCTs, all conducted in India, found weak support for one herbal medicine (*brahmyadiyoga*) being more effective in treating schizophrenia than placebo, but it does not appear to be more effective than chlorpromazine. *Brahmyadiyoga* was also associated with nausea and vomiting. The studies were old (one published in 1976 and two in 1992) and short term. Psychiatrists working with patients from Indian subcontinent backgrounds should be aware that their patients may have used such traditional treatments prior to presentation or may continue using them.

The above studies of Chinese and Indian herbal medicines were conducted in adults, and schizophrenia is less commonly diagnosed in children and younger adolescents. Thus, caution is warranted in extrapolating such preliminary results to the younger population.

**Depression and Anxiety**

A range of herbal treatments in both high- and low-income countries have been used for treating depression and anxiety, for example, St John's wort (*hypericum perforatum*) (see also table J.2.1). Other herbal medicines in Japan and Persia are also traditionally used to treat depression and anxiety.

Sarai (1992) reviewed herbal medicines used in Japan, among them: *saikokaryaikutoborei-to* for anxiety and depression; *yokukan-san-ka-chinpi-hange* for agitated depression and nightmares; *choto-san* for headaches; and *hoch-ekki-to* for...
“exhausted depression”. Each of these herbal medicines is a complex combination of herbs. A novel aspect of Sarai’s paper is that the ingredients for each medicine are listed, including quantities and dosages. However, Sarai also noted that no double blind controlled trials were available to test for efficacy. Further, the studies cited were in vitro and animal studies and the mechanism of action of these medicines are mostly unknown. Thus, efficacy in humans is not known.

Akhondzadeh et al (2005) investigated the efficacy of saffron (dried stigmas of Crocus sativus flowers), a traditional Persian treatment for depression. A double-blind RCT in 40 adults with mild to moderate depression found those taking a capsule of 15g dried saffron extract/day had significantly improved at six weeks and this improvement was greater than that experienced by the placebo group. The participants were free of psychotropic medications for at least four weeks before the start of the study. Side effects reported were mild. This is the first clinical trial of saffron as a treatment for mild to moderate depression and the sample size is small. Thus, larger trials are required. A practical issue is the cost of treatment as saffron is the most expensive spice in the world.

**Borderline Personality Disorder (BPD)**

While BPD is not generally diagnosed in adolescents, borderline features often emerge at this age. The Chinese herb yi-gan san was originally used for restlessness and agitation in children in the 16th century and more recently has been used in Japan to treat behavioural and psychological symptoms in dementia. A 12-week open-label study investigated yi-gan san as a monotherapy in adults with BPD (Miyaoka et al, 2008). There were significant reductions in a variety of symptoms at week 2 and 12. Side effects were mild and few. The study was single blind—the authors conceded a double blind study could not be conducted as the herbal powder mixture had a distinctive taste and smell and an appropriate placebo could not be developed.

**Attention Deficit Hyperactivity Disorder (ADHD)**

A quick internet search reveals that a multitude of herbs and home remedies are promoted as “natural” treatments for ADHD (see Chapter D.1.1 of the eBook). Gingko biloba, St John’s wort, valerian, kava-kava, and chamomile do not improve ADHD symptoms (Arnold et al, 2013). A small trial of Pycnogenol (US registered trademark name for a product derived from the pine bark of the tree Pinus pinaster) improved some symptoms of ADHD when compared to placebo, but the safety of Pycnogenol has not been established (Arnold et al 2013).

**Adverse Effects of Traditional Herbal Treatments**

In terms of safety, caution is warranted for herbal medicines overall. That an herbal remedy has been used for centuries for religious or medicinal purposes does not necessarily mean it is safe, and apparent lack of toxicity in the short term does not guarantee the herb is not toxic with chronic use. Also, contaminants such as heavy metals, pesticides and herbicides, may be significant toxins themselves (Gardiner & Kemper, 2000; Arnold et al, 2013). Drug-herb interactions are also cause for concern, St John’s wort being a case in point. In other examples, kava, which is not recommended for paediatric use (Rey et al, 2011), may potentiate benzodiazepines, alcohol and central nervous system depressants, and valerian

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**Ayurveda**

Ayurvedic medicine (also called Ayurveda) is one of the world’s oldest medical systems. It originated in India and has evolved there over more than 3,000 years. The term “Ayurveda” combines the Sanskrit words ayur (life) and veda (science or knowledge). Thus, Ayurveda means “the knowledge of life” (Agarwal et al, 2010). The aim of Ayurvedic medicine is to integrate and balance the body, mind and spirit. This balance is believed to lead to happiness and health, and to help prevent illness. Ayurvedic medicine also treats specific physical and mental health problems. A chief aim of Ayurvedic practices is to cleanse the body of substances that can cause disease, thus helping to re-establish harmony and balance.
may potentiate sedatives and barbiturates (Gardiner & Kemper, 2000).

Quality control of herbal medicines should also be considered as the quantity of active compounds may vary from dose to dose and according to the quality of the herbs used in their preparation. Thus, a dose of traditional herbal medicine may contain levels of active compounds too low to have an effect, or so high as to be toxic. There are situations where herbs within a prescribed mixture have been substituted with another which is toxic (see Box), or conventional pharmaceutical compounds have been included in a herbal medicine mixture (see Box) (Kenny et al, 2001). These concerns make it necessary for clinicians to ask patients and their families about the use of any herbal medicine. Patients will not necessarily disclose use. Reasons for not doing so include fears their clinician will disapprove or not want to know about it (Walter & Rey, 1999), although a survey of Australian psychiatrists regarding St John's wort shows this is not necessarily the case, and that very few psychiatrists would be dismissive of the information (Walter et al, 2000).

**Conclusion**

Overall, there is inadequate evidence that herbal remedies are effective as primary treatments for mental conditions, particularly in the paediatric population.

**PHYSICAL AND PROCEDURAL THERAPIES**

Apart from herbal and medicinal CAM, there are also procedural CAM therapies used to treat psychiatric disorders. Music therapy, hypnosis and acupuncture are the better known examples in Western countries; other traditional therapies that may be considered procedural include yoga, meditation, Qi Gong and Tai Chi.

**Hypnosis**

In the case of hypnosis, Cochrane reviews found insufficient evidence to support its efficacy in the treatment of schizophrenia. Nevertheless, hypnosis does not appear to have adverse effects and some patients found that it provided short-term benefits. However, the studies reviewed were conducted in adults only and are quite old, being published in 1973, 1983 and 1980 (Izquierdo de Santiago & Khan, 2009). Hypnosis has been used to treat conversion disorder, in both inpatient and outpatient settings. There is weak evidence that hypnosis may be more beneficial than harmful, but effects on social functioning, interpersonal relationships and quality of life, and long term efficacy, are not known (Ruddy & House, 2005).

**Music therapy**

A Cochrane review assessed five RCTs of music therapy, but there were distinct differences in the type of music therapy used. Only one study was conducted in adolescents and the rest were conducted in adults. Four of the five studies (including the one of adolescents) found that patients undergoing music therapy had fewer depressive symptoms compared to those given standard care (hospitalisation and medication), psychotherapy, or wait-list controls, while the fifth study found music therapy yielded no significant change in mental state when compared with standard care alone (Maratos et al, 2009). Overall, the
Mindfulness: modernized meditation?

In recent decades, mindfulness-based therapies have become fashionable in developed Western countries. These include mindfulness-based stress reduction (developed in the late 1970s) for managing stress, mindfulness-based cognitive therapy for managing depression, dialectic behaviour therapy (which includes mindfulness as one of its elements) and acceptance commitment therapy. These therapies are based on Buddhism, yoga and meditation and generally focus on positive alternatives and non-judgemental acceptance of symptoms (Dryden & Still, 2006). Mindfulness-based therapies also attempt to utilize only the essence of meditation and remove the cultural, traditional and/or religious elements associated with it. Research into mindfulness-based therapies is still preliminary in children and adolescents, with small study samples and heterogeneous methodologies (Burke, 2010). Studies have investigated both clinical (e.g., ADHD, sleep disorders, anxiety) and non-clinical samples for the impact of mindfulness therapies on social skills, anxiety, attention, depression, sleep quality, substance use, aggression, behaviour, general mental health and academic performance. At this stage, research shows the therapies can be administered and are well accepted by children and adolescents, but their efficacy in this population is not yet known.

studies were of low quality and had small sample sizes. Also, there was great heterogeneity in the delivery of music therapy, such as a structured program compared with a more passive and unstructured approach of simply listening to music. The reviewers concluded that music therapy has at least short term benefits in improving mood above those of standard care alone but it is still not clear whether music therapy is an effective treatment for depression.

Psychosis

A quasi-randomised controlled trial of a two-week active music therapy program for patients during an acute psychotic episode was conducted as an adjunct to medication. This trial found significantly reduced Brief Psychiatric Rating Scale scores (total and subscale scores) in both treatment and control groups, with the treatment group's scores significantly lower than that of the controls (Morgan et al, 2011). The difference in improvement was not sustained at follow-up, although both groups' scores decreased significantly over time. The length of hospital stay was reduced by two days in patients receiving music therapy but this was not statistically significant.

Dance Therapy

Dance therapy has been defined as “the psychotherapeutic use of movement as a process which furthers the emotional, social, cognitive, and physical integration of the individual.” One single blind RCT found no evidence to support, or not support, dance as an adjunct to routine care in adults with schizophrenia, when compared with routine care alone (Ren & Xia, 2013).

Acupuncture

Acupuncture—a traditional treatment in the Far East (China, Japan)—has become popular worldwide. In acupuncture, fine needles are inserted into different points on the body to correct energy imbalances.

Depression

A Cochrane review of acupuncture as treatment for depression in adults is available; it assessed seven trials but found insufficient evidence to support its effectiveness (Smith & Hay, 2004).

Schizophrenia

A review of 30 RCTs of acupuncture as a treatment for schizophrenia – alone or combined with antipsychotics – found limited evidence of acupuncture having antipsychotic effects (Shen et al, 2014).
Yoga

Yoga, a spiritual practice originating in India, is also used in Western societies for relaxation and as exercise. While there has been interest in yoga in the treatment of schizophrenia, a systematic review of six RCTs found yoga was not more effective than other forms of exercise when used as adjunctive treatments for schizophrenia (Broderick et al, 2017). This included no greater effectiveness in terms of mental state, social functioning, quality of life, and physical health. Therefore, there is insufficient evidence to support yoga over other forms of exercise or vice versa. It was not clear whether the participants were also being treated with conventional antipsychotic medications at the time, and the quality of the studies was low. However, there were no reported adverse events.

Meditation

Meditation is used in both religious and secular settings and may help achieve relaxation and an altered state of consciousness. The latter potentially has cognitive-behavioural benefits (Krisanaprakornkit et al, 2010b). Meditation can be divided into two types: concentrative, where attention is focused on an object and aims to achieve sustained attention and stillness of the mind, and mindfulness, where there is an open awareness to any thoughts and the practitioner aims to develop a sustained attentiveness without reacting to their thoughts or emotions (Krisanaprakornkit et al, 2010a).

Anxiety and Depression

Two RCTs of meditation as a treatment for anxiety in adults reported only slightly supportive evidence for its efficacy, similar to that of relaxation therapy (Krisanaprakornkit et al, 2010b). Both studies were conducted in the US and the reviewers were not able to identify any studies from India, China or Thailand which met their inclusion criteria. This is a potential bias as meditation techniques originated in the East and may be practised more purely in those countries. Another systematic review (Goyal et al, 2014) found that mindfulness produced small improvements in anxiety and depression, but not mantra meditation, when compared to active controls. However, neither mindfulness nor mantra meditation were more effective than active control interventions such as cognitive behavioural group therapy, exercise or progressive muscle relaxation. Goyal et al (2014) also reported that few trials investigated adverse effects. Meditation may be a useful adjunct to conventional treatments but larger trials of better quality are required to show its effectiveness (Krisanaprakornkit et al, 2010b). In summary, there is no evidence to show that meditation is superior to medication or other psychotherapies.

Attention Deficit Hyperactivity Disorder (ADHD)

A review assessed four RCTs in children but found the quality of the studies to be poor and there was insufficient evidence to recommend meditation in treating ADHD (Krisanaprakornkit et al, 2010a). A Dutch pre-post trial of an eight-week mindfulness program for children aged 8-12 years with ADHD and their parents reported significant reductions in ADHD behaviour rated by the parents (inattention, hyperactivity/impulsivity) but not when rated by the teachers (except for inattentive behaviour) (van der Oord et al, 2012). The children were
still following their medication regimens. The program was intensive and its cost-effectiveness is not yet known, nor its potential effectiveness in low and middle income countries.

### Qigong

Qigong is a traditional Chinese practice of mind, body, and breathing regulation that seeks to restore the flow of “Qi” (life energy) via gentle focused exercises for the mind and body (Hartley et al, 2015). Qigong Sensory Training—also called Kai Qiao Taina (Silva et al, 2011a)—is a manual-based therapy that has been used to treat children with autism (Silva et al, 2011b). Qigong Sensory Training comprises a protocol that applies 12 patting, shaking, and pressing movements to 12 body areas and can be delivered by occupational therapists or parents.

Randomised controlled trials suggest that Qigong Sensory Training may improve behavioural, social, and language measures in children with autism, as well as their sensory impairment and self-regulation (Silva et al, 2011a; 2011b). However, the therapy is resource-intensive. Training and supporting parents to deliver it is a feasible alternative.

### Tai Chi

A traditional Chinese mind and body exercise, Tai Chi has been trialled for the physical and psychological wellbeing of tertiary students in China (Zheng et al, 2015). However, the RCT recruited students from the community and not from a clinical setting. Participants in the Tai Chi group improved their physical flexibility and balance following 12 weeks of intervention but they did not differ from the control group in their mood, quality of life, or sleep quality. Having depression or a mental disorder at baseline was not a recruitment criterion and so it is unclear whether Tai Chi would benefit patients from a clinical setting.

### Adverse effects and compliance issues

There is generally a dearth of information regarding adverse effects of meditation in children. Effectiveness and potential adverse effects aside, meditation as an exercise or treatment requires considerable motivation and discipline in the same manner that physical exercise routines do, which may be problematic in young people with anxiety or depression. Compliance concerns were highlighted by the high drop-out rates in the two studies of meditation and anxiety (Krisanaprapornkit et al, 2010b). However, for patients from some cultural backgrounds, meditation may already be a routine part of their lives, including in young people, such as in Thailand. In these settings, meditation is an accepted method of improving attention, temperament, discipline, character, morals and school performance, and is also used for religious reasons. In such environments, a psychiatrist can expect the patient to have already undertaken meditation before presenting for assessment and treatment. Interestingly, Kapur (1979) claims that in Ayurveda, the “mentally disturbed” (author's term) are forbidden to practice Yoga, although Yoga is recommended to promote mental growth in the healthy person.

Though uncommon, acupuncture can have adverse effects, such as headaches, palpitations, sleep disturbance, tiredness and dryness of mouth (Smith &

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### Adulteration of African herbal medicine with western pharmaceuticals

Synman et al (2005) presented two cases where African herbal medicine had been adulterated with Western pharmaceuticals: a five year old child was admitted to intensive care with seizures after consuming a traditional herbal infusion to treat seizures; and a 30 year old woman was admitted with a ruptured uterus following consumption of a herbal medicine to induce abortion. Analyses of the infusions showed trimethadione (a drug used to treat petit mal seizures), in the one taken by the five year old, and propofol (an anaesthetic) and diclofenac (a non-steroidal anti-inflammatory) in the herbal medicine consumed by the 30 year old. The herbs used in the infusions were unknown.

Numerous cases of adulteration of Chinese herbal medicines with orthodox pharmaceuticals have been previously reported and both Chinese and Ayurvedic herbal medicines have been subject to contamination with heavy metals (Feucht & Patel, 2011), but this is the first published report of adulteration of African herbal medicine with orthodox medications.
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Suryani and Jensen (1992) reported a case in Bali where school children were experiencing trance en masse, causing much community disruption. Attacks were occurring from once to 30 times a day and continued for seven months, with each episode spanning about 40 minutes.

Prior to Suryani’s intervention, a traditional healer, a *balian*, had provided treatment with ceremonies and offerings to appease gods and spirits and to compensate for an inadvertently desecrated old and buried temple. One village individual was blamed for the afflictions and expelled from the community while some of the afflicted children were transferred to another school. These treatments did not yield improvements, with children at the new schools also experiencing attacks. There was an appearance of contagion and non-affected community members were afraid that they would have an episode.

In her treatment strategy, Suryani settled on a diagnosis of *kesurupan*, meaning possession, which was understood by the Balinese, accepted as a normal part of life and also did not carry stigma. Community leaders, health, education and religious officials as well as psychiatrists were involved. A high priest acted as primary traditional healer, since the people believed the condition was due to supernatural forces, as opposed to a disease. Another reason for selecting a traditional healer was because of logistical problems and inadequate psychiatric resources. A new temple in the correct orientation would be constructed (to replace a temple in the school grounds which was not correctly oriented according to the Hindu religion), school teachers were to teach traditional Hindu stories about benevolent spirits to reduce the children’s anxiety, the village was closed to outsiders to reduce stress and fear from visitors (visitors and media were disturbing the normally isolated community and expected to witness episodes), and there was a back-up plan of individual psychotherapy. Within a month, trance episodes ceased and did not reoccur in the three years of follow-up.

Hay, 2004). Apart from adverse effects, conducting acupuncture in children is complicated by children's acceptance. Children often have a fear of needles and do not retain needles for as long as adults, reducing treatment duration (Jindal et al, 2008). For children under 6 years of age, shorter needles are often substituted for the conventional longer ones.

No adverse events were reported for Tai Chi (Zheng et al 2015) and it can be expected that patients, including children, with a Chinese background may have experienced or undertaken Tai Chi as a traditional form of exercise. Adverse events were not reported on for Qi Gong (Silva et al 2011b).

**Conclusion**

There is inconsistent evidence as to the benefits of CAM procedural therapies as primary treatment in mental conditions, particularly in the paediatric population.

**PRACTICES, BELIEFS AND PHENOMENA RELATED TO MENTAL HEALTH**

This section provides context and awareness for psychiatrists of a range of traditional beliefs, practices and phenomena with regard to mental health and some of the challenges they may encounter when managing patients for specific backgrounds. While most of the material presented here relates to experiences with adult patients, it is likely that children from these backgrounds may have received or been exposed to such practices and beliefs prior to coming to a psychiatrist’s attention.

**Religious Healing and Sorcery**

**Indian Subcontinent**

Religious treatment in India may be conducted alone or with a guru and may take the form of religious lectures, praying, bathing, fasting and religious rituals.
Amulets or talismans are objects believed to possess supernatural or magical powers. They are intended to bring good luck, protection or health to their owner.

Click on the picture to watch a lecture on Ayurveda (1 hour 28 minutes) by Sudah Prathikani MD, explaining the philosophy behind Ayurveda and some of the modern research into its efficacy.

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included writing of charms on spirit money or paper which were then eaten, used to make infusions for drinking or bathing in, or hung in various parts of the girl's dwelling, placating ghosts and ancestral spirits with ritualistic food offerings and burning of spirit money and incense. In this case, orthodox medicine was only used to provide a sedative. Harrell observed that the community this patient lived in did not consider that there was only one cause or diagnosis for her condition and accepted all offered explanations, including retrospective ones, whereupon the cause of the illness was decided on the basis of which treatment (temporarily) succeeded.

In traditional Tibetan medicine, mental illness is often described as an imbalance or disturbance of the wind humour or as a wind humour illness, with particular reference to the life-bearing wind. The term srogrlung may describe depressive or anxiety symptoms and may also include episodes of panic and psychosis (Jacobson, 2007; Millard, 2007). Thus, an individual may report having high wind, meaning greater stress, exhaustion, hardship or irritability. There is also stigma attached to srogrlung, and some patients will therefore deny having the condition. Mental illnesses may also be attributed to harmful spirits or gnod pa (Millard, 2007), in which case the emphasis is on supernatural origins and reflects Tibetan religious beliefs. Herbal medicines were prescribed to treat srogrlung while gnod pa illnesses would be confirmed by divination and treated by lamas or local healers (jhānkri). Millard reported such treatments included rituals and prayers to appease the spirits and fastening blessed cords (cords blessed by lamas) about a patient's fingers to seal a spirit inside the patient in order to communicate with it and thus discover the reasons for it attacking the patient.

African Continent and the Middle-East

A study in Liberia described that mental illness was traditionally believed to be caused by breaking taboos, offending ancestral spirits and deities, being possessed by spirits, being bewitched or having a curse applied by a witch doctor (zoe), or was inherited through the family (Hales, 1996). Some of the beliefs in Arab societies, where illness is due to devils, sorcery, jinn (demons), the evil eye or ill-wishing from others, also apply to South Saharan Africa (Hales, 1996) and to the Indian subcontinent (Littlewood & Dein, 2013). Treatments include confession to doing wrong (e.g., breaking taboos), animal sacrifices to deities and spirits, and paying fees and exorcism, usually through physically beating the patient. Some inherited mental illnesses are deemed incurable and patients may be restrained or left to die (Hales, 1996). Jamaican health concepts also have roots in African religious and supernatural beliefs, including Obeah, a concept that spans traditional health and medicine (James et al, 2014). Illnesses that are considered “unnatural” would be treated by an Obeah practitioner while illnesses considered natural (ie with physical symptoms) would be treated by the orthodox medical system. However, in Jamaica Obeah practice is illegal, unlike...
in some African countries (James et al, 2014). These strong cultural beliefs can make it difficult to convince patients that the supernatural does not cause their mental illness.

Adjido (1997) discussed the association between psychosomatic medicine and sorcery in Africa, describing sorcery as “one of the central mysteries of African life” (p266). It is difficult for outsiders to grasp and define sorcery due to the secrecy encapsulating sorcerers’ societies, and the social and cultural barriers surrounding sorcery enforced by the rest of African society. While not specifically focusing on psychiatric illnesses, Adjido noted sorcery’s role in African society, the way it permeates African cultures and that sorcerers prefer children and adolescents with “psychosomatic personalities” as “victims” (the author’s terms). In doing so, sorcerers are able to utilize the targets’ suggestibility. Illness, through the lens of belief in witchcraft or sorcery, therefore results from an enemy’s or spirit’s attack, and cure is through exorcism. Adjido provided a case study of a 12-year-old boy with psychosomatic symptoms who was successfully treated with psychotherapy and possibly magical rituals. The social history of this patient also revealed complex family issues preceding the psychosomatic symptoms and that ritual sacrifices had been conducted for his and his mother’s protection before the patient presented for psychiatric treatment. Adjido describes “psychosomatic transfer” being used to destroy victims by exhausting them through “a micro-environment of suggestion-induced insecurity, source of a lethal anguish” (p277), leading to chronic illness or death. In Kenya, Gona et al (2016) reported that some parents believe their child’s autism is a result of “God’s wish”. There was a belief in prayer and divine intervention as a means of healing and, in some cases, parents opted for prayers as a means of healing instead of a traditional healer (Gona et al, 2016). Ahyi (1997) investigated the traditional models of mental illness in Benin, a West African country where the Vodun (Voodoo) religion has its roots: these models are considered applicable to a reasonably large proportion of Africa’s population.

In the Arab world, there is common belief in Jinn possession, sorcery, witchcraft and the evil eye as causes of mental illness. Treatment by traditional healers, the Motawwa, is often sought first, with patients seeking psychiatrist’s help after traditional treatments prove unsuccessful (Kronfol et al, 2013). Traditional Arabs may seek out traditional healers to exorcise jinn (Fakhr El-Islam, 2008). Other treatments include purification ceremonies and herbal treatments. Charms and markings are also used as prophylactics. Traditional healers include: Dervish healers, who treat mental illnesses with religious and cultural rituals, including exorcism; amulet writers, who produce amulets to ward off evil spirits; fortune tellers, who predict the future or diagnose by reading the dregs in patients’ coffee cups; and Koranic healers, men who treat patients who have been attacked by evil spirits by using religious principles based on the Koran (al-Krenawi & Graham, 1999). The Dervishes may themselves have had psychiatric illnesses, in that a previous mental breakdown is viewed as a “blessing gift from God” (p224). There are some gender and social differences in how patients perceive the cause of their illnesses with women citing sorcery and spirits as the cause, educated men citing divine will and punishment (religious) causes and less educated men citing spirits. The evil eye (being the subject of another person’s envy) is also reported as a cause of mental health problems in many cultures. Further, as a result of the social environment they inhabit, women use sorcery as their means of coping with psychiatric problems.
Applying the Concept of Sorcery in Orthodox Treatment

Ahyi (1997), a psychiatrist, described clinical cases where he had “exorcised sorcerers” with medication and where he successfully treated cases of witchcraft which he called “fake witchcraft”. In effect, Ahyi explained the conventional medical treatment within the patients’ cultural reference points. However, he acknowledged that to use such a construct is to concede there is genuine witchcraft, which he had yet to encounter. Furthermore, some patients come to see a Western trained psychiatrist because they relapse after consulting traditional healers. Ahyi also highlighted the importance of social support and the social network in such societies, which are important for the patient, beyond what medication alone can provide. This also highlights the importance of communication with the patient. Brathen et al (2013), in their qualitative study in rural South Africa, presented a case report that demonstrated poor communication in orthodox treatment for a mental health problem, where the patient and family were not told what the problem was, nor what the medication was provided for. The situation was further exacerbated by severe shortages of health professionals in general, including mental health professionals, in the area. The patient and family were subsequently referred by a clinic nurse to traditional healers (Brathen et al 2013).

Adjido (1997) and Ahyi (1997) show how mental illnesses are interpreted in African societies and suggest how psychiatrists working with patients with these cultural backgrounds may need to frame their discussions to engage these patients and thus provide culturally acceptable care. The traditional religious and supernatural beliefs in South Saharan Africa lead to a common sequence of help-seeking for mental disorders: traditional healer, then a church for prayers or faith healing, and then, if the symptoms become worse, to a hospital (Odejide et al, 1989). Association with traditional and religious care systems may continue after effective hospital treatment. Thus, for psychiatrists working with patients from these communities, it is likely the patients will already have sought treatment from traditional healers and religious bodies before presenting, and will continue to do so after receiving orthodox psychiatric care. Odejide and co-workers advise there are cultural and social limitations to Western-style psychotherapy in Africa due to common beliefs in the supernatural and a tendency to attribute mental illnesses to an external cause (as inferred by Ahyi above). This parallels the attitudes of some traditional Arab patients, where patients expect psychiatrists to cure them, as opposed to taking an active role themselves, as cognitive and behavioural therapies require (Fakhr El-Islam, 2008).

Explaining orthodox psychiatric treatment within a patient’s cultural reference points—as Ahyi has by treating “fake witchcraft” and “exorcising sorcery” with medication—may improve patients’ compliance with treatment and help retain their carers’ support. Further, it may be of little practical benefit to openly challenge patients’ beliefs regarding sorcery and the supernatural when their family and the community they live in share the same beliefs.

Relevance of Religious Healing and Challenges for Scientific Medicine

The above scenarios illustrate not only the traditional treatments patients and their families or communities may seek for mental illness, but also how people
view, describe or interpret a mental illness through their cultural lens. As in the case of sorcery, being able to engage patients and families within their cultural reference points is important for psychiatrists working with patients from these backgrounds. Clinicians require an understanding of the importance of spiritual beliefs, but not necessarily to hold these beliefs personally, to allow them to accurately access patients make suitable referrals (van Rensburg et al, 2013).

Ahyi (1997) highlighted the challenges reconciling Western and traditional African models of mental illness. This contrasts with Suryani and Jensen's (1992) experiences in Bali, where both traditional and Western models and treatments were successfully integrated in treatment. Ahyi states that in the African healing system it is understood that some facts should not be mentioned. Further, attributing the behaviours associated with mental illness (e.g., suicide attempts) to another person or spirit removes guilt from patients and their families. There are parallels to this in traditional Bedouin-Arab beliefs, where mental illness is attributed to external, supernatural causes and patients are less likely to believe the illness is their own fault (al-Krenawi & Graham, 1999). Al-Krenawi and Graham noted the difficulties Western-trained psychiatrists may face in accurately diagnosing patients from Arabic backgrounds because patients use proverbs, similes, and metaphors to describe their symptoms and emotions. These descriptions are understood by traditional healers, who have the same cultural experience and language, but can be very difficult for clinicians from other backgrounds to interpret. For example, Al-Krenawi and Graham quote female patients describing despair and hopelessness as “my eyes are blind and my hand is shorter” (p232). This has also been commented upon in Jamaican patients who may describe their illnesses using folk medicine terms such as “eyes dark”, “bad feeling”, and “take it on the brain” (James et al, 2014).

Clinicians treating patients from these backgrounds should ask what the patient and their family believe is causing their problem and what they have already tried as treatment. For example, patients and carers who believe the condition is caused by sorcery, may have tried sorcery as a treatment, or plan to continue with sorcery and related rituals; a clinician should note if any of

### Table J.2.3. Managing young patients and their families using or planning to use traditional medicines

- When taking a medical history, ask and record current and past use of traditional treatments.
- Note what the patient and family believe is causing the child’s illness. This may provide information on the patient’s and family’s cultural reference points when psychiatric treatment is explained and administered.
- Ask if the family intends for the child to continue taking traditional treatments or whether they plan to commence using traditional treatments.
- Do not dismiss the use of traditional medicines lightly. Allowing patients to continue their traditional treatments (if harmless) encourage compliance. Also, because of the belief systems associated with some traditional treatments, the use of traditional therapies can lessen the stigma of the illness and allow patients and families to continue functioning in their community.
- Balance the above openness to consider traditional treatment with concerns about the interactions of herbal medicines with prescription medications, their safety, efficacy and potential burdens (including financial and time-related).
- Safety concerns are not exclusive to herbal medicines but extend to non-biological physical therapies as well. The importance of using properly sterilized needles in acupuncture, and potential injury by the more physically demanding types of meditation, are examples.

By clicking on the title, interested persons may read the WHO’s report: *Legal Status of Traditional Medicine and Complementary/Alternative Medicine: A Worldwide Review.*
Severe, life-threatening or fatal events due to complementary and alternative medicine use in children

In Lim et al’s (2011) Australian survey of paediatricians, 29 CAM-associated adverse events were reported in a 36 month period (2001-3). Four resulted in death due to CAM treatments being used in place of orthodox medicine: one case of pulmonary embolism (anticoagulants should have been used); two cases of malnutrition leading to sepsis and death due to dietary restrictions and homeopathy; and seizures and death because anticonvulsants were not used. Other serious adverse events from substituting orthodox treatments with CAM included delayed management of severe cerebral palsy, undiagnosed urinary tract infections, and hyperglycaemia because the insulin dose had been reduced and diabetes was treated with naturopathy.

Adverse effects directly due to the use of CAM in children included argyria from administering colloidal silver, acute hepatitis and liver failure from multiple herbal treatments and minerals which subsequently required a liver transplant, mouth ulcers from homeopathic medicines, hypercalcaemia from oral and intravenous calcium, acidosis from crushed pearls and bleeding due to gingko and ginseng.

the practices are likely to be detrimental to the patient. This is not merely in terms of physical or medical harm but also includes potential financial burden. Permitting sorcerous or other culturally sanctioned rituals to continue if they are not harmful, while continuing to monitor the patient, may help to build trust and rapport.

SOCIALLY SANCTIONED DISORDERS AND TREATMENT

Trance

What is deemed a mental disorder in one culture may not be so in another. Cultural sanction of a mental illness influences how treatment is delivered, if required. This section looks at trance as a social phenomenon, as an illness, and as a treatment.

Trance in its Social Context and as a Disorder

Trance may be socially acceptable or have a socially acceptable explanation in some cultures. This is partly reflected in a case reported by Suryani and Jensen (1992) in Bali, Indonesia, where 45 out of 215 school children experienced dissociative disorder en masse. According to Suryani and Jensen, trance is a normal part of the Balinese Hindu faith in the sense that it is expected to occur in association with ceremonies and dances. What was different in this case was that the children were going into trance outside of culturally acceptable scenarios and, in turn, this led to significant disruption of the school’s functioning (see Box).

Suryani and Jensen elegantly state: “The psychiatrist can help patients recover from symptoms of mental disorder as defined by Western psychiatry but cannot provide patients with necessary direct treatment for problems or illness caused by cultural beliefs or the supernatural. The latter are best treated by those persons responsible for them. ” (p312, our italics).

In this Balinese case, the people responsible were traditional healers and priests. Incorporating patients’ cultural language and reference points when
explaining and administering psychiatric treatment was also highlighted by Ahyi (1997) in Africa, describing treatment as “exorcising sorcery” with medication (see section on sorcery).

**Trance as Treatment**

Trance can be a direct means of treatment. Skultans (1991) conducted fieldwork at a Mahanubhav healing temple in India in the 1980s. The female patients with mental illness who went to this temple as supplicants were usually recorded by the temple as either having *pida* (spiritual affliction) resulting from spirit possession, or *ved* (madness). Trance was associated with having *pida* but trancing also offered symptomatic relief to the patients. Also, female family members and caregivers of male patients at the temple would go into trance as a means of taking on the burden of the male patients’ afflictions. In this scenario, trance is a means of redistributing the intensity of the illness. Skultans noted that no men were recorded as going into trance.

In India’s Balaji temple, which is popular for treatment for psychological problems, ritualised trance (*peshi*) and religious prescriptions are used (Sood, 2016). Mental disorders are interpreted as spirit afflictions. Some of the treatment practices include sleep deprivation, consuming bitter or tasteless foods, hard physical labour, hitting the body against walls, inducing dissociative states by moving the head repeatedly in circular motions for extended periods and restricting the body’s movements with chains. Sood (2016) observed that some of these practices no longer occur due to India’s mental health policy and adoption of the Global Mental Health agenda and that the temple is positioning itself to appeal to a wider Hindu audience, beyond those who seek healing.

**Socially Sanctioned Attribution of Mental Illness to Spiritual Causes**

Society’s concealment allows protection for the guilty parties while they correct their behaviour. Also, if behaviours such as violence are attributed to a spirit, individuals may be seen as a vessel or medium through which spirits communicate instead of being viewed as criminals; that is, the individual is still accepted in society. Ahyi (1997) illustrated this with a Ghanaian cult, *Tigari*, where a “hysterical crisis” was interpreted as a visitation from the spirit world. Such a person is thus not viewed as having an episode of a mental illness or as a sick person, but instead as a spokesperson for a spirit or deity and is thus accepted in society. This in turn allows patients time to develop a new life for themselves. In a similar situation, Li and Phillips (1990) reported a case in rural China where a female patient with a tentative diagnosis of schizophrenia was believed by others in the community to be in communication with spirits. As a result, community members began to ask the patient to see their sick relatives, who they believed were affected by evil spirits.

Littlewood and Dein (2013) reported on Bangladeshi psychiatric patients living in the UK and how they and their families described mental illness as spiritual illnesses (“mullah illness”) or attributed the cause to spirits such as *jinn* and *bhut peroth*, their influence, or sorcery. The authors noted that some of the study participants described having religious visions and these were to some
degree normalised or sanctioned by family members or the clergy. These “visions” may have been psychotic episodes. Social sanctioning of mental illnesses may hinder patients from seeking treatment, as neither patients nor their families or community see that there is a problem.

**STIGMA OF MENTAL ILLNESS AS A DRIVING FORCE FOR CAM USE**

The stigma of mental illness may be a driving force behind attributing the illness to spiritual causes and the use of CAM to treat it. For example, Gona et al (2016) noted that in Kenya, attributing autism to “God’s wish” appeared to be a coping strategy for the parents, including when coping with the stigma associated with autism. There is less stigma associated with accessing traditional medicine for a mental health problem (Stuttaford et al, 2014) and Liu et al (2016) believes that the stigma of depression may turn patients to traditional Chinese medicine as the diagnostic terms used in traditional Chinese medicine are more vague and more socially acceptable.

**ACCESS, EQUITY, LEGAL STATUS AND REGULATORY ISSUES**

CAM may be preferred because it is in keeping with patients’ culture, faith or beliefs (Onyiapat et al, 2011). The United Nations defines “the right to health in all its forms” to include health facilities, products and services being culturally appropriate and acceptable as well as scientifically and medically appropriate. Health services should also take into account “traditional preventive care, healing practices and medicines”, particularly in relation to indigenous peoples. However, the Committee also highlighted the need to protect children, expectant and new mothers from harmful traditional health practices (Committee on Economic, Social and Cultural Rights, 2000).

The regulation and legal status of traditional and complementary medicine varies widely from country to country. Even in countries where herbal medicines are regulated, the standards to which they are held are lower than conventional or orthodox medicines. Thus, *regulation* does not automatically imply efficacy and safety (Rey et al, 2011). Where regulations and laws exist, these can also vary from region to region within one country (World Health Organization, 2001). Regulation of traditional medicines, or the lack of it, also means that access can be much easier than for orthodox medicines. For example, in Germany, herbal medicines have the same legal status as all other medicines while in the US, herbal medicines were mainly regulated as foods and, more recently (as of 1994), as dietary supplements (World Health Organization, 1998). In other countries, traditional medicines may be completely unregulated in terms of source, manufacturing, quality control, dispensation and who is permitted to administer treatments, including procedural treatments such as acupuncture. Stuttaford et al (2014) compared South Africa, where traditional healing is legally regulated, to Kenya where only biomedicine (that is, orthodox medicine) is regulated. As another example, in Australia, minors have been able to purchase St John’s wort over the counter (Walter & Rey, 1999), implying they may even self-administer herbal medicines without their carers’ knowledge.

Equity issues and equitable access to orthodox medicine and CAM have been
raised. In developing countries, traditional and CAM practitioners and therapies are more affordable and available than orthodox health professionals, hospitals, and treatments, and thus tend to be accessed by those of lower socioeconomic status (Stuttaford et al, 2014; Onyiapat et al, 2011). For example, Ayurvedic treatments are cheaper and therefore more accessible to poor people than chlorpromazine, let alone the more recent atypical antipsychotics (Agarwal et al, 2010). Accessibility is not only in terms of cost, but also the availability of orthodox mental health professionals, which may make CAM practitioners more appealing or even encouraged by general orthodox health professionals (Braathen et al, 2013).

In contrast, in a developed country such as the UK, CAM is more accessible and in greater demand by patients with higher socioeconomic status (Jarvis et al, 2015). However, Sood (2016) also reported that in India the clients of the Balaji temple were urban, middle-class and educated, and sought the temple’s healing because orthodox treatment or other treatments had been unsuccessful.

There is an additional ethical issue when children receive CAM therapies, as children usually do not make the decisions about their treatment (Gilmour et al, 2011). Parents are typically viewed as the most appropriate agents to decide on treatment for their children, that their wishes should be accepted unless the potential harm is of a level that requires referral to other services.

**CONCLUSION**

There is a vast range of traditional treatments available and this chapter covers only a selected few. Currently, there is insufficient empirical evidence to support the efficacy of almost all traditional treatments as a sole therapy for mental illnesses. Few, if any, traditional medicines or therapies, can be confidently endorsed by mental health professionals as stand-alone treatments for children and young people. However, many patients and their families may have already used various traditional remedies before presenting for assessment and may intend to continue using them. Health professionals need to be alert to, and observant of any traditional treatments a patient may use. A mental health professional working with such patients will need to balance the potential risks of traditional treatments (including interactions with orthodox medications, physical injury from some procedures, and financial costs) with sensitivity to cultural beliefs, patients’ and their family’s social standing and reputation, and their beliefs about the patient’s illness. Clinicians should also be aware that allowing a patient to continue with a traditional treatment which does not interfere with prescribed orthodox therapies, together with regular and close monitoring, may enhance compliance to therapy overall.
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