Evidence-based psychological approaches for auditory hallucinations

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COMMENTARY ON… AUDITORY HALLUCINATIONS IN SCHIZOPHRENIA†

Summary
In a previous article in this journal, Turkington et al suggested a number of psychological approaches that an individual can use to reduce the distress caused by hearing voices. Despite having popular appeal, only some of these approaches have evidence for their effectiveness. Within a clinical context where few patients with psychosis have access even to evidence-based approaches, the reader is invited to familiarise themselves with the evidence before selecting which approaches to introduce to their patients.

DECLARATION OF INTEREST
M.H. is one of the authors of the self-help book Overcoming distressing Voices that is promoted within the article.

Auditory hallucinations (or ‘voices’) are a distressing experience that can detrimentally affect the lives of people with psychosis. Turkington et al (2016) outline a range of approaches that individuals can be encouraged to use to cope with their voice hearing experiences. These approaches are categorised as either distraction (those that encourage the individual to turn away from voices) or focusing (those that encourage the individual to turn towards voices), and the authors suggest a sequence of approaches that culminates in focusing on the voices. Many of the focusing approaches are intuitively appealing and very much in vogue; yet limited evidence is offered for their effectiveness. Greenwood (2017) has advised against the use of approaches that do not have evidence for their effectiveness. This article will map some of these approaches onto the evidence base, thereby allowing the reader to make informed decisions about which to introduce to their patients.

Enhancing the patient’s attempts to cope with voices
The majority of patients will naturally use one or more strategies to help them cope with their voices, suggesting that most take actions of their own volition to cope with an unusual experience they appraise as a threat or challenge (Farhall et al 2007). These naturally occurring coping strategies can be grouped into three categories: behavioural, cognitive and physiological – see Box 1 (Tsai 2006). Most of these strategies will involve attempts by the patient to distract themselves from voices.

The patient’s view of what does and does not work for them is a key perspective that may facilitate therapeutic engagement. This was the rationale behind the development of coping strategy enhancement (CSE; Tarrier 1992), an approach premised on a functional analytic model in which triggers and reactions to voices influence the likelihood of voice re-occurrence and the maintenance of distress. CSE assumes that patients have an existing repertoire of: (a) helpful coping strategies, the effectiveness of which can be enhanced by their consistent and strategic application; and (b) unhelpful strategies that can unwittingly maintain distress. Patients are invited to scrutinise the effectiveness of their strategies and explore their deployment more often/less often/differently in order to enhance benefits.

CSE has evidence for its effectiveness from two randomised controlled trials (RCTs) when voices were one of the psychotic symptoms that were targeted during 8–10 sessions of therapy (Tarrier et al 1993, 1998). We have delivered a brief (4-session) form of CSE specifically for voices to 101 patients in routine clinical practice and found small to moderate reductions in voice-related distress (Hayward et al 2017a). Consistent with the suggestion of Turkington et al (2016), CSE seems to be a practical first step towards the management of voices, but more significant and sustainable recovery might require the use of some additional approaches that can facilitate focusing on voices.

Evidence-based focusing approaches
Turkington et al (2016) suggest a range of approaches for helping patients to focus on voices. The

following approaches have evidence from RCTs to suggest they are effective in this respect.

Rational responding

This approach combines two evidence-based techniques: (a) ‘playing detective’ by seeking all the available information prior to re-evaluating the accuracy of beliefs about voices; and (b) standing up for oneself by assertively presenting any new information to the voice.

First, in the context of the confirmation bias that can restrict the array of information used to support beliefs (i.e. by drawing attention primarily to confirmatory evidence; Maher 1974), patients can be supported to seek and consider a broader array of information; this may include information that does not support their beliefs about the power, control and truthfulness of voices (Birchwood & Chadwick, 1997). If such information is available, patients can be invited to re-evaluate the accuracy of their beliefs about voices in the light of this new information. There is no attempt to ‘persuade’ patients that their beliefs are in any way false or wrong; they are merely encouraged to work beyond the normal heuristics of information processing to ensure that their beliefs are based on more of the available information and are as accurate as possible. The strongest evidence for the effectiveness of this technique relates to beliefs about the power of voices that issue commands (Birchwood et al 2014).

Second, if patients identify any disconfirmatory information and conclude that they have a different view to that of their voices (e.g. they do not consider themselves to be useless and worthless all the time), they can be taught to assertively articulate this view to their voices during role-play. Within avatar therapy, patients are coached on how to respond assertively to a visual depiction of their voice on a computer screen (Craig et al 2017), whereas in relating therapy, role-play involves either the patient or the therapist taking the part of the voice (Hayward et al 2017b). In each of these therapies, the patient is taught how to articulate their views calmly and respectfully, with attention paid to non-verbal communication and the use of experiential ‘data’ from their everyday lives to back up their views.

Schema-based techniques

This approach can build on the skills of rational responding. As stated by Turkington et al (2016), the critical and derogatory comments of voices can be an echo of the beliefs that patients hold about themselves (often reflecting adversity they experienced in their early life). Negative core beliefs are commonly held by people who hear distressing voices (Thomas et al 2015), yet the current focus of therapeutic practice is not on identifying and challenging these negative beliefs. The rationale for this is that strongly held, fact-like negative core beliefs about the self can be difficult to shift. Patients are instead invited to identify and strengthen existing but weakly held positive beliefs about the self by recalling and re-experiencing positive events – an approach that can be experientially supported by exercises that help the patient to ‘relive’ and ‘soak up’ these positive experiences (van der Gaag et al 2012; Chadwick et al 2016).

Mindfulness

Paul Chadwick (2006) has identified three main adaptations to mindfulness practice for patients who hear distressing voices. First, practice time is limited to 10 min maximum, as most patients find this is the most they can manage. Second, extended silences during practices are avoided – therapists provide guidance throughout the practice. This is an important grounding method, and helps patients to decentre from voices, rumination, etc. and to reconnect with present experience with clearer awareness. Third, practice outside sessions is not a requirement, although recordings of 10 min guided practices are provided and practice is encouraged.

These adapted practices can be safely used with patients to enable them to ‘step back’ from voices and deliberately pay attention to and process information that may be beyond their usual gaze; this makes new information available that can be incorporated into re-evaluations of beliefs about self and voices. When combined with cognitive–behavioural strategies in this manner, mindfulness-based groups have been found to reduce voice-related distress and depression (Chadwick et al 2016).

Non-evidence-basedb focusing approaches

Turkington et al (2016) also propose the use of the following approaches to help patients to focus on voices, but evidence for their effectiveness is not yet available.

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**BOX 1 Naturally occurring coping strategies for voice hearing**

- Behavioural – doing something, e.g. carrying out a chore
- Cognitive – thinking differently, e.g. telling oneself not to worry
- Physiological – changing one’s sensations, e.g. taking a shower

(Tsai 2006)
Attention training
This approach has much in common with mindfulness, as it can facilitate: (a) the deliberate moving of attention away from voices in a manner that can reduce the likelihood of getting caught up with and ruminating on voice comments; and (b) the generation of experiential data to support a view that the patient can have some control over their attention, even when voices are active. The literature appears to contain only one case study in which attention training was used specifically for voices (Valmaggia et al 2007).

Acceptance and commitment to a valued goal
Accepting the presence of voices and directing one’s focus and energy towards the achievement of valued goals are the central tenets of acceptance and commitment therapy (ACT). Despite seeming to have a wide appeal among clinicians, the only RCT of ACT specifically for voices found no evidence for its effectiveness in the treatment of voices that issued commands, albeit in comparison with an active control condition of befriending (Shawyer et al 2012).

Generating compassion
Responding with compassion to self and voices are central tenets of compassion-focused therapy (CFT). As with ACT, CFT seems to be appealing to clinicians, but to date it has evidence from only one case study when used specifically for the treatment of voices (Mayhew 2008).

Working with imagery
Imagery has been used indirectly for the treatment of voices within competitive memory training (COMET; van der Gaag et al 2012). In COMET, imagery is one of the techniques that a patient can use to facilitate the ‘reliving’ of positive experiences. A more direct attempt to revisit and transform memories linked to voices using creative imagery was successfully deployed by Ison et al (2014) – but this evidence is currently limited to a case series.

Writing down voice content, voice postponement and voice study periods
These attempts to exert some control over voices are described in the anecdotal literature (e.g. Romme 2000), but have not been the subject of empirical investigation. These techniques seem more consistent with distraction approaches and may be explored within a CSE approach.

So, what approaches should a clinician use?
The above review of evidence endorses the suggestion of Turkington et al (2016) that treatment for distressing voices can begin with the refinement of strategies to help patients distract themselves from voices. I suggest using the patient’s current repertoire of coping strategies as an engaging and validating starting point in this respect, and propose CSE as a model-driven framework within which to structure these conversations.

If a patient needs and desires further treatment after CSE, a limited number of evidence-based approaches are available to help them to focus on voices. It is important to note that the evidence described above (summarised in Box 2) is not for the isolated use of specific approaches (e.g. rational responding), but for their use within broader therapeutic packages (e.g. relating therapy).

Some of the more novel forms of focusing, although intuitively appealing and very much in vogue, do not yet have evidence for their effectiveness. In a context where even evidence-based approaches are rarely made available to patients with psychosis (Schizophrenia Commission 2012), Greenwood (2017) warns against routine implementation of novel approaches (until we know they work), as they can interrupt the delivery of evidence-based approaches.

An integrated approach
Where does this leave a clinician who wants to help a patient to distract themselves, then subsequently focus on their voices – but who has no training in the delivery of broader packages of therapy? My colleagues and I have responded to this dilemma by developing the ‘Guided self-help intervention for distressing VoicEs’ (GiVE), which combines some of the evidence-based approaches in an

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**BOX 2 Focusing approaches for voice hearing**

**Evidence-based**
- Rational responding
- Schema-based techniques
- Mindfulness

**Non-evidence-based**
- Attention training
- Acceptance and commitment to a valued goal
- Generating compassion
- Working with imagery
- Writing down voice content, voice postponement and voice study periods
accessible format. GiVE is based on our self-help book *Overcoming Distressing Voices* (Hayward et al 2012) and the clinician guides the patient through a companion workbook that combines coping, rational responding (re-evaluating the accuracy of beliefs about voices and assertive responding) and schema-based techniques. Reductions in the negative impact of voices were very large when GiVE was delivered by highly trained therapists in a small RCT (Hazell et al 2017), and we are currently exploring patient experiences and outcomes when GiVE is delivered by clinicians with no formal therapy training.

**A final caveat – voices beyond psychosis**

Distressing voices are experienced by many patients who do not have a psychosis diagnosis, and there is increasing interest in the voice hearing experiences of people with borderline personality disorder, post-traumatic stress disorder and mood disorders (Thomas et al 2014). The relevance of this interest is corroborated by our experience in the Sussex Voices Clinic (www.sussexpartnership.nhs.uk/sussex-voices-clinic), where more than half of the referred patients have non-psychosis diagnoses. Given that most of the evidence described above was generated with psychosis patients, future research needs to clarify the extent to which this evidence is generalisable to patients who are distressed by voices in the context of non-psychosis diagnoses.

**Conclusions**

Turkington et al (2016) suggest that a broad range of approaches can be used to help people with psychosis to cope with their distressing voice hearing experiences. Only some of these approaches currently have evidence for their effectiveness. Amidst a potentially confusing array of approaches, some of which may be more appealing than others, a clinician can have confidence that an approach will be beneficial to patients if the selection is guided by a consideration of the evidence for its effectiveness.

**References**


